



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM1-UNV-OWW-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 12326812.06
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 10/01/2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L20-835-DIM1-UNV-OWW-OF-CS
 [LUMINAIRE] Black formed aluminum housing, semi- specular reflector wi
 [MORE] th black baffle, no lens enclosure
 [LAMP] One white LED
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	19.1262
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3315	2796	6816
55	2024	1948	5156
65	2061	1866	4160
75	1418	1079	3238
85	126	126	1634

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	772.4	772.4	772.4	772.4	772.4	772.4	772.4	772.4	772.4
0.5	778.8	802.1	791.4	780.1	768.6	759.5	753.6	760.8	721.9
1.0	795.4	814.6	804.5	790.5	770.1	748.3	732.0	731.8	682.9
1.5	807.7	823.4	813.9	799.9	772.3	737.4	706.0	697.4	637.5
2.0	815.8	826.4	821.3	808.4	775.1	723.6	672.9	660.4	587.2
2.5	824.9	832.8	825.4	815.4	778.5	708.1	639.3	622.1	546.3
3.0	830.5	843.0	825.2	821.0	782.5	693.0	607.2	584.9	514.8
3.5	835.8	849.8	828.5	826.0	787.0	677.1	576.5	545.6	482.1
4.0	846.8	857.0	834.9	829.0	792.6	662.7	545.8	507.8	452.9
4.5	859.5	867.7	840.2	830.3	798.5	647.2	517.6	479.7	428.1
5.0	873.2	878.9	843.2	832.3	804.9	631.4	494.4	453.7	403.2
5.5	889.5	889.1	846.1	833.9	811.2	614.2	474.0	428.7	380.0
6.0	904.0	899.6	853.4	835.6	817.5	595.9	453.6	407.7	361.6
6.5	915.1	910.0	862.8	835.7	822.9	579.2	433.2	387.5	342.3
7.0	925.4	917.3	872.0	834.8	829.8	563.1	414.8	368.3	327.1
7.5	934.6	922.0	880.0	834.4	838.1	546.6	398.5	352.3	318.4
8.0	938.9	925.9	887.9	835.3	849.5	530.9	382.3	340.5	313.7
8.5	940.2	926.6	896.1	837.0	865.0	516.8	366.4	328.5	305.8
9.0	938.5	924.7	902.7	840.2	887.8	504.4	350.4	317.7	303.1
9.5	933.9	921.5	906.5	844.8	917.7	492.1	337.6	311.9	301.6
10.0	928.2	916.5	908.7	849.9	946.9	481.1	328.1	309.6	300.5
10.5	922.3	910.0	910.0	854.1	973.1	471.0	319.9	304.7	299.8
11.0	916.4	903.9	909.7	856.8	997.8	459.2	308.2	301.5	299.0
11.5	911.3	898.1	906.8	858.4	1020.0	447.5	299.8	299.6	298.3
12.0	906.2	892.6	902.8	859.0	1040.0	434.5	293.6	298.7	297.5
12.5	902.0	887.5	898.4	859.3	1059.0	422.2	289.0	297.8	297.0
13.0	897.9	882.9	893.2	859.3	1077.0	410.0	284.9	297.0	296.2
13.5	894.7	878.8	887.3	859.5	1095.0	397.2	281.6	296.0	295.5
14.0	892.0	875.3	881.7	860.3	1115.0	384.7	279.3	295.0	294.7
14.5	890.6	872.4	876.5	861.3	1124.0	372.4	277.3	293.9	293.5
15.0	891.0	870.8	872.1	862.6	1128.0	360.6	275.3	292.6	292.1
15.5	893.7	870.5	868.4	863.8	1132.0	349.7	273.3	291.5	291.1
16.0	898.4	871.7	865.1	865.3	1134.0	339.9	271.3	290.5	290.7
16.5	905.8	874.1	862.7	866.9	1134.0	331.5	269.5	289.4	289.8
17.0	916.8	878.5	860.5	869.0	1131.0	323.3	267.4	288.0	289.1
17.5	928.6	884.9	858.5	871.0	1125.0	315.8	265.3	286.8	288.6
18.0	942.2	894.5	857.2	873.3	1116.0	308.3	263.4	285.8	288.1
18.5	959.1	908.6	856.2	875.1	1102.0	301.0	261.8	284.8	287.7
19.0	978.2	928.9	856.0	876.5	1086.0	294.7	260.1	283.8	287.1
19.5	1001.0	954.1	856.0	876.9	1070.0	289.0	258.5	282.9	286.6
20.0	1027.0	984.8	856.0	876.5	1062.0	284.6	257.0	282.2	286.1
20.5	1060.0	1020.0	855.7	875.6	1059.0	281.8	255.3	281.2	285.5
21.0	1099.0	1056.0	856.0	874.5	1059.0	279.6	253.9	280.4	284.9
21.5	1133.0	1095.0	857.0	873.2	1061.0	278.3	252.2	279.5	284.2
22.0	1185.0	1138.0	859.1	871.9	1063.0	277.1	250.6	278.5	283.4
22.5	1244.0	1184.0	863.7	870.9	1066.0	276.4	249.1	277.3	282.3
23.0	1310.0	1232.0	870.9	870.3	1068.0	276.3	247.4	276.0	281.1
23.5	1375.0	1279.0	880.0	869.0	1070.0	276.9	245.6	274.6	279.9
24.0	1437.0	1325.0	891.8	866.9	1068.0	278.1	243.8	273.1	278.2
24.5	1499.0	1368.0	906.4	864.6	1062.0	279.7	241.9	271.6	276.3
25.0	1552.0	1411.0	924.5	862.3	1051.0	281.7	240.0	270.0	274.4
25.5	1600.0	1454.0	947.8	860.7	1037.0	284.2	238.1	268.3	272.4
26.0	1641.0	1493.0	976.0	860.3	1021.0	286.4	236.2	266.6	270.5
26.5	1676.0	1530.0	1010.0	860.7	1003.0	288.3	234.3	264.8	268.7

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CANDELA TABULATION - (Cont.)

27.0	1706.0	1565.0	1048.0	862.2	984.4	289.7	232.5	263.0	266.6
27.5	1728.0	1593.0	1087.0	856.9	963.8	289.9	230.7	261.2	264.6
28.0	1746.0	1606.0	1108.0	837.6	940.4	289.0	229.1	259.4	262.8
28.5	1758.0	1595.0	1116.0	808.3	913.7	286.0	227.6	257.6	261.1
29.0	1767.0	1566.0	1116.0	773.2	882.6	281.7	225.9	255.8	259.1
29.5	1774.0	1524.0	1104.0	733.8	846.6	275.5	224.4	254.0	257.5
30.0	1774.0	1469.0	1082.0	690.3	800.3	268.6	222.8	252.2	255.7
30.5	1755.0	1397.0	1054.0	647.5	750.2	261.4	221.2	250.3	254.0
31.0	1693.0	1308.0	1018.0	603.5	701.4	254.3	219.7	248.5	252.1
31.5	1598.0	1188.0	962.9	557.0	656.6	249.0	218.2	246.4	250.2
32.0	1480.0	1055.0	888.9	500.1	616.3	244.5	216.4	244.4	248.3
32.5	1348.0	915.0	814.1	451.8	579.3	239.5	214.8	242.4	246.1
33.0	1204.0	784.5	736.0	407.1	545.6	233.8	213.0	240.2	243.9
33.5	1041.0	658.7	656.0	358.1	508.9	227.7	211.3	238.1	241.7
34.0	872.4	533.4	570.8	307.8	470.1	220.6	209.4	235.8	239.2
34.5	697.3	414.3	482.0	257.2	426.7	212.4	207.6	233.6	237.0
35.0	538.9	311.3	400.0	209.1	375.2	203.1	205.8	231.3	234.5
35.5	421.6	233.6	320.4	164.2	317.6	193.9	203.9	229.1	232.1
36.0	332.1	185.1	256.0	128.1	263.6	185.5	202.0	226.8	229.9
36.5	258.4	152.8	209.2	106.0	216.0	178.7	200.2	224.5	227.6
37.0	199.0	128.3	169.5	95.2	177.9	173.4	198.3	222.2	225.2
37.5	159.5	108.7	136.9	87.1	152.9	169.5	196.9	220.1	222.8
38.0	133.5	94.6	111.6	81.0	141.0	165.8	195.0	217.8	220.4
38.5	114.6	83.9	93.9	76.4	132.4	162.7	193.0	215.4	217.8
39.0	101.0	75.9	81.3	72.7	125.7	159.8	191.1	213.1	215.2
39.5	90.6	69.3	72.2	69.6	120.2	157.1	189.0	210.8	212.8
40.0	82.1	63.8	65.4	66.9	115.5	154.6	187.0	208.4	210.3
40.5	75.5	59.3	59.9	64.6	111.5	152.1	184.9	206.2	207.6
41.0	69.8	55.3	55.5	62.4	107.9	149.8	182.8	203.6	204.9
41.5	64.8	51.9	51.8	60.4	104.8	147.5	180.8	201.3	202.3
42.0	60.6	48.9	48.7	58.6	101.9	145.3	179.3	198.9	199.7
42.5	56.8	46.1	45.9	56.9	99.2	143.2	177.2	197.1	196.9
43.0	53.5	43.7	43.4	55.2	96.7	141.1	175.1	194.7	194.2
43.5	50.4	41.5	41.3	53.6	94.4	139.1	172.9	192.3	191.6
44.0	47.7	39.5	39.4	52.1	92.2	137.0	170.7	189.9	189.1
44.5	45.1	37.7	37.6	50.7	90.0	135.0	168.5	187.4	187.4
45.0	42.8	36.1	36.1	49.3	88.0	133.0	166.3	185.0	184.8
45.5	40.7	34.6	34.7	48.0	86.0	131.1	164.1	182.5	182.1
46.0	38.9	33.2	33.4	46.7	84.0	129.1	161.8	180.0	179.3
46.5	37.1	32.0	32.2	45.5	82.0	127.0	159.5	177.9	176.5
47.0	35.5	30.8	31.1	44.3	80.1	125.0	157.1	175.3	173.6
47.5	34.1	29.7	30.1	43.1	78.2	123.0	154.6	172.5	170.5
48.0	32.6	28.7	29.2	42.0	76.4	120.9	152.2	169.7	167.4
48.5	31.5	27.8	28.3	40.9	74.6	118.8	149.6	166.8	164.2
49.0	30.5	27.0	27.4	39.9	72.8	116.7	147.1	163.8	161.1
49.5	29.6	26.1	26.6	38.9	71.1	114.6	144.5	160.8	157.8
50.0	28.6	25.3	25.8	37.9	69.3	112.5	142.0	157.7	154.5
50.5	27.8	24.6	25.1	36.9	67.6	110.3	139.4	154.6	151.1
51.0	27.0	23.9	24.5	36.0	66.0	108.2	136.8	151.4	147.8
51.5	26.2	23.3	23.8	35.1	64.4	106.0	134.2	148.2	144.5
52.0	25.4	22.6	23.2	34.3	62.8	103.7	131.6	145.1	141.2
52.5	24.5	22.1	22.6	33.4	61.2	101.6	129.0	141.9	137.9
53.0	23.8	21.6	22.1	32.6	59.7	99.4	126.3	138.7	134.6
53.5	23.0	21.1	21.6	31.9	58.2	97.2	123.7	135.6	131.4
54.0	22.4	20.7	21.2	31.1	56.7	95.0	121.0	132.5	128.1
54.5	21.8	20.4	20.7	30.3	55.3	92.9	118.4	129.4	125.0

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CANDELA TABULATION - (Cont.)

55.0	21.2	20.0	20.4	29.7	54.0	90.8	115.7	126.3	121.9
55.5	20.8	19.7	20.0	29.1	52.7	88.7	113.0	123.2	118.8
56.0	20.5	19.5	19.6	28.5	51.4	86.6	110.3	120.2	115.8
56.5	20.3	19.3	19.4	28.0	50.2	84.6	107.6	117.3	112.9
57.0	20.0	19.1	19.1	27.5	49.0	82.7	105.0	114.4	110.0
57.5	19.9	18.9	18.9	26.9	47.8	80.8	102.4	111.6	107.2
58.0	19.7	18.7	18.7	26.4	46.7	78.9	99.9	108.8	104.5
58.5	19.5	18.5	18.5	25.9	45.6	77.0	97.5	106.1	101.8
59.0	19.3	18.3	18.3	25.5	44.5	75.2	95.1	103.5	99.2
59.5	19.1	18.0	18.1	25.0	43.4	73.4	92.7	100.9	96.6
60.0	18.9	17.8	17.8	24.5	42.4	71.6	90.4	98.3	94.2
60.5	18.7	17.5	17.6	23.9	41.3	69.9	88.1	95.9	91.8
61.0	18.5	17.3	17.3	23.3	40.3	68.1	85.9	93.4	89.4
61.5	18.2	17.0	17.0	22.7	39.2	66.4	83.7	91.0	87.1
62.0	17.9	16.7	16.7	22.0	38.1	64.7	81.6	88.7	84.8
62.5	17.7	16.3	16.4	21.4	37.1	63.1	79.6	86.4	82.6
63.0	17.4	15.9	16.0	20.8	36.0	61.4	77.6	84.1	80.4
63.5	17.1	15.6	15.6	20.3	35.0	59.8	75.6	81.9	78.2
64.0	16.7	15.2	15.2	19.7	34.0	58.3	73.7	79.8	76.1
64.5	16.3	14.8	14.8	19.1	33.0	56.8	71.8	77.6	74.1
65.0	15.9	14.3	14.4	18.5	32.1	55.3	69.9	75.6	72.0
65.5	15.4	13.8	13.9	17.9	31.1	53.8	68.1	73.6	70.1
66.0	14.9	13.4	13.5	17.3	30.2	52.5	66.4	71.6	68.1
66.5	14.4	12.9	13.0	16.7	29.2	51.1	64.6	69.8	66.3
67.0	13.9	12.5	12.6	16.2	28.4	49.8	62.9	67.9	64.4
67.5	13.4	12.0	12.1	15.6	27.5	48.4	61.3	66.1	62.6
68.0	12.9	11.6	11.7	15.1	26.6	47.2	59.6	64.3	60.8
68.5	12.4	11.1	11.2	14.5	25.8	45.9	58.0	62.5	59.0
69.0	11.9	10.6	10.8	14.0	25.0	44.6	56.4	60.8	57.2
69.5	11.4	10.2	10.3	13.4	24.1	43.3	54.8	59.0	55.5
70.0	11.0	9.7	9.9	12.9	23.3	42.0	53.3	57.3	53.7
70.5	10.5	9.3	9.5	12.4	22.5	40.8	51.7	55.6	52.1
71.0	10.0	8.9	9.1	11.9	21.7	39.5	50.2	53.9	50.4
71.5	9.6	8.5	8.6	11.4	21.0	38.3	48.8	52.3	48.8
72.0	9.2	8.1	8.2	10.9	20.2	37.1	47.3	50.7	47.2
72.5	8.8	7.6	7.8	10.4	19.4	35.9	45.9	49.1	45.7
73.0	8.3	7.2	7.4	9.9	18.6	34.7	44.5	47.5	44.2
73.5	7.9	6.7	6.9	9.3	17.8	33.5	43.1	46.0	42.8
74.0	7.5	6.2	6.3	8.8	17.0	32.4	41.7	44.6	41.4
74.5	7.1	5.6	5.8	8.1	16.2	31.2	40.4	43.1	40.0
75.0	6.7	4.9	5.1	7.4	15.3	30.0	39.0	41.7	38.7
75.5	6.1	4.2	4.5	6.8	14.4	28.8	37.7	40.3	37.3
76.0	5.5	3.6	4.0	6.2	13.6	27.6	36.3	38.9	36.0
76.5	4.8	3.1	3.5	5.7	12.8	26.4	35.0	37.5	34.7
77.0	3.9	2.6	3.0	5.2	12.1	25.2	33.6	36.1	33.3
77.5	2.9	2.1	2.6	4.7	11.4	24.0	32.2	34.8	32.0
78.0	1.9	1.5	2.1	4.2	10.7	22.9	30.9	33.4	30.6
78.5	1.2	1.1	1.7	3.7	9.9	21.7	29.5	32.0	29.2
79.0	0.9	0.8	1.3	3.2	9.2	20.6	28.1	30.7	27.9
79.5	0.7	0.6	1.0	2.8	8.5	19.4	26.8	29.3	26.4
80.0	0.6	0.5	0.8	2.5	7.9	18.3	25.4	27.8	25.0
80.5	0.5	0.4	0.7	2.2	7.3	17.2	24.1	26.4	23.5
81.0	0.4	0.4	0.6	1.9	6.7	16.1	22.7	24.9	22.0
81.5	0.4	0.3	0.5	1.7	6.2	15.1	21.3	23.5	20.5
82.0	0.4	0.3	0.4	1.5	5.7	14.0	19.9	21.9	18.9
82.5	0.3	0.3	0.4	1.4	5.2	12.9	18.5	20.3	17.3

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CANDELA TABULATION - (Cont.)

83.0	0.3	0.2	0.3	1.2	4.7	11.8	17.0	18.7	15.6
83.5	0.3	0.2	0.3	1.0	4.1	10.7	15.5	17.0	13.9
84.0	0.3	0.2	0.3	0.9	3.6	9.5	13.9	15.3	12.0
84.5	0.2	0.2	0.3	0.8	3.1	8.3	12.2	13.5	10.1
85.0	0.2	0.2	0.2	0.7	2.6	7.0	10.4	11.6	8.0
85.5	0.2	0.2	0.2	0.6	2.2	5.8	8.6	9.6	5.9
86.0	0.2	0.1	0.2	0.5	2.0	5.1	7.1	7.6	3.6
86.5	0.2	0.1	0.2	0.4	1.7	4.5	6.2	6.1	1.3
87.0	0.2	0.1	0.1	0.3	1.5	3.9	5.3	5.1	0.2
87.5	0.1	0.1	0.1	0.3	1.2	3.3	4.4	4.1	0.2
88.0	0.1	0.1	0.1	0.2	0.9	2.6	3.4	3.0	0.2
88.5	0.1	0.1	0.1	0.1	0.6	1.9	2.4	1.8	0.2
89.0	0.1	0.1	0.1	0.1	0.4	1.2	1.3	0.7	0.1
89.5	0.1	0.1	0.1	0.1	0.1	0.4	0.3	0.2	0.1
90.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM1-UNV-OWW-OF-CS.IES

CANDELA TABULATION - (Cont.)

111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM1-UNV-OWW-OF-CS.IES

CANDELA TABULATION - (Cont.)

139.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM1-UNV-OWW-OF-CS.IES

CANDELA TABULATION - (Cont.)

167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM1-UNV-OWW-OF-CS.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	252.09	N.A.	25.00
0-30	592.32	N.A.	58.70
0-40	803.46	N.A.	79.60
0-60	941.42	N.A.	93.30
0-80	1003.69	N.A.	99.40
0-90	1009.26	N.A.	100.00
10-90	943.58	N.A.	93.50
20-40	551.37	N.A.	54.60
20-50	629.86	N.A.	62.40
40-70	178.28	N.A.	17.70
60-80	62.27	N.A.	6.20
70-80	21.95	N.A.	2.20
80-90	5.57	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1009.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.67
10-20	186.41
20-30	340.24
30-40	211.14
40-50	78.48
50-60	59.48
60-70	40.32
70-80	21.95
80-90	5.57
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
9	69	58	51	47	68	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

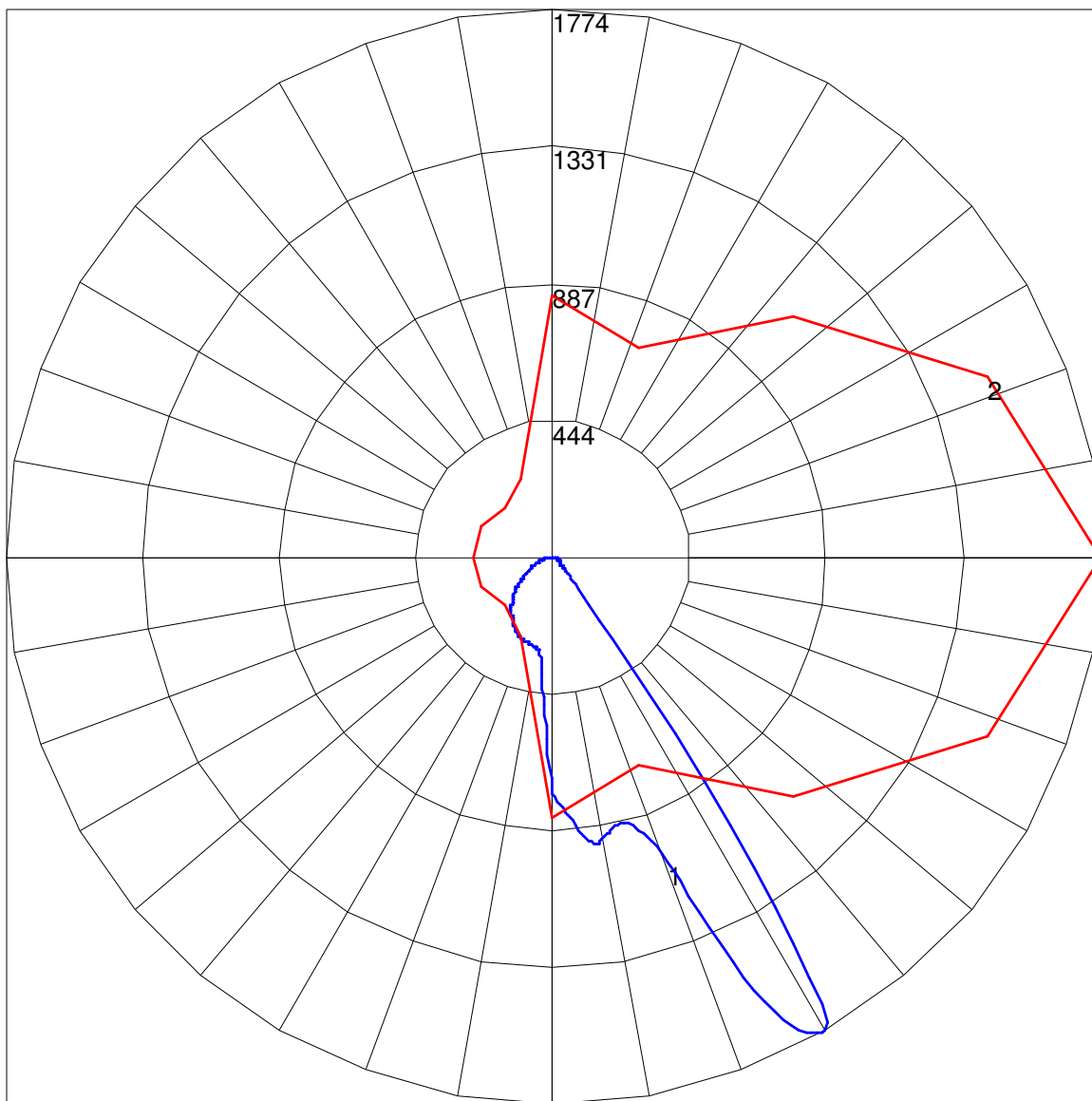
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM1-UNV-OWW-OF-CS.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	6.8	7.9	7.1	8.2	8.6	14.3	15.5	14.7	15.8	16.2
	3H	8.5	9.5	8.9	9.9	10.2	15.6	16.6	16.0	17.0	17.3
	4H	8.9	9.9	9.3	10.3	10.6	16.0	17.0	16.4	17.3	17.7
	6H	8.9	9.8	9.3	10.2	10.6	16.2	17.1	16.7	17.5	17.9
	8H	8.9	9.7	9.3	10.1	10.5	16.3	17.1	16.7	17.5	17.9
	12H	8.8	9.6	9.3	10.0	10.4	16.3	17.1	16.7	17.5	17.9
4H	2H	7.3	8.3	7.7	8.7	9.0	15.2	16.2	15.6	16.5	16.9
	3H	9.2	10.0	9.6	10.4	10.8	16.7	17.5	17.1	17.9	18.3
	4H	9.6	10.3	10.0	10.7	11.2	17.3	18.0	17.7	18.4	18.9
	6H	9.6	10.2	10.1	10.6	11.1	17.6	18.3	18.1	18.7	19.2
	8H	9.5	10.1	10.0	10.5	11.0	17.7	18.3	18.2	18.7	19.2
	12H	9.5	10.0	10.0	10.5	10.9	17.7	18.2	18.2	18.7	19.2
8H	4H	9.7	10.2	10.1	10.7	11.2	17.8	18.3	18.2	18.8	19.3
	6H	9.7	10.1	10.2	10.6	11.1	18.3	18.8	18.8	19.3	19.7
	8H	9.6	10.0	10.1	10.5	11.0	18.4	18.9	19.0	19.4	19.9
	12H	9.5	9.9	10.1	10.4	11.0	18.5	18.9	19.1	19.4	20.0
12H	4H	9.6	10.1	10.1	10.6	11.1	17.8	18.3	18.3	18.8	19.3
	6H	9.6	10.0	10.1	10.5	11.0	18.4	18.8	19.0	19.3	19.9
	8H	9.6	9.9	10.1	10.4	11.0	18.7	19.0	19.2	19.5	20.1

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 1774 Located At Horizontal Angle = 0, Vertical Angle = 29.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (29.5) (Through Max. Cd.)