



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L15-835-XXX-DIM-UNV-RW-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13257153.16
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 02/08/2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 4CS-L15-835-xxx-DIM-UNV-RW-WH
 [LUMINAIRE] Square Aluminum housing, optics, and trim enclosure
 [LAMP] One white LED
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Downlight
 [_SEARCH_MOUNTING] Surface, Suspended, Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	17.2988
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35925	48897	35152
55	24961	26955	24441
65	19350	17880	19409
75	11140	10276	11236
85	5133	5133	5133

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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>
0.0	1861.0	1861.0	1861.0	1861.0	1861.0
0.5	1863.0	1871.0	1862.0	1854.0	1852.0
1.0	1862.0	1870.0	1862.0	1854.0	1852.0
1.5	1861.0	1869.0	1861.0	1853.0	1851.0
2.0	1860.0	1868.0	1860.0	1852.0	1849.0
2.5	1858.0	1866.0	1857.0	1850.0	1848.0
3.0	1856.0	1862.0	1855.0	1848.0	1845.0
3.5	1852.0	1860.0	1852.0	1845.0	1842.0
4.0	1849.0	1856.0	1848.0	1841.0	1839.0
4.5	1845.0	1852.0	1844.0	1837.0	1835.0
5.0	1840.0	1848.0	1840.0	1832.0	1830.0
5.5	1835.0	1843.0	1835.0	1828.0	1825.0
6.0	1830.0	1838.0	1830.0	1823.0	1820.0
6.5	1825.0	1833.0	1825.0	1817.0	1814.0
7.0	1819.0	1827.0	1819.0	1812.0	1808.0
7.5	1814.0	1821.0	1813.0	1806.0	1802.0
8.0	1807.0	1816.0	1807.0	1800.0	1796.0
8.5	1801.0	1809.0	1800.0	1793.0	1789.0
9.0	1793.0	1802.0	1794.0	1786.0	1783.0
9.5	1787.0	1795.0	1787.0	1779.0	1775.0
10.0	1779.0	1787.0	1779.0	1771.0	1768.0
10.5	1770.0	1779.0	1771.0	1763.0	1759.0
11.0	1761.0	1770.0	1762.0	1754.0	1751.0
11.5	1752.0	1760.0	1753.0	1745.0	1741.0
12.0	1741.0	1751.0	1743.0	1735.0	1731.0
12.5	1731.0	1740.0	1732.0	1725.0	1721.0
13.0	1719.0	1729.0	1721.0	1714.0	1709.0
13.5	1708.0	1717.0	1710.0	1702.0	1697.0
14.0	1695.0	1704.0	1698.0	1690.0	1685.0
14.5	1681.0	1691.0	1684.0	1677.0	1671.0
15.0	1666.0	1676.0	1670.0	1663.0	1657.0
15.5	1650.0	1661.0	1655.0	1648.0	1642.0
16.0	1634.0	1644.0	1639.0	1632.0	1626.0
16.5	1617.0	1628.0	1622.0	1616.0	1609.0
17.0	1599.0	1610.0	1605.0	1599.0	1592.0
17.5	1580.0	1591.0	1588.0	1581.0	1573.0
18.0	1560.0	1571.0	1568.0	1562.0	1553.0
18.5	1539.0	1550.0	1549.0	1541.0	1531.0
19.0	1515.0	1528.0	1528.0	1520.0	1509.0
19.5	1491.0	1504.0	1507.0	1498.0	1485.0
20.0	1465.0	1480.0	1484.0	1474.0	1460.0
20.5	1437.0	1454.0	1460.0	1448.0	1433.0
21.0	1411.0	1426.0	1434.0	1422.0	1405.0
21.5	1382.0	1398.0	1408.0	1394.0	1375.0
22.0	1349.0	1368.0	1381.0	1365.0	1344.0
22.5	1315.0	1337.0	1353.0	1334.0	1311.0
23.0	1279.0	1305.0	1324.0	1303.0	1276.0
23.5	1243.0	1270.0	1293.0	1269.0	1240.0
24.0	1204.0	1236.0	1262.0	1234.0	1203.0
24.5	1165.0	1200.0	1230.0	1199.0	1164.0
25.0	1126.0	1163.0	1196.0	1162.0	1124.0
25.5	1085.0	1125.0	1162.0	1124.0	1083.0
26.0	1043.0	1086.0	1126.0	1085.0	1040.0
26.5	1000.0	1047.0	1090.0	1045.0	997.6

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CANDELA TABULATION - (Cont.)

27.0	957.3	1006.0	1053.0	1004.0	953.3
27.5	914.9	965.0	1014.0	962.6	910.5
28.0	871.7	923.9	975.5	920.4	865.8
28.5	828.8	882.3	936.0	878.2	822.8
29.0	787.1	841.4	896.7	835.8	779.9
29.5	748.3	800.2	857.3	795.0	736.7
30.0	707.9	761.4	817.8	753.0	694.3
30.5	667.3	721.0	779.3	711.6	654.0
31.0	628.0	682.3	741.5	672.4	612.8
31.5	590.0	643.3	702.8	632.8	571.9
32.0	551.8	605.7	666.2	594.7	530.5
32.5	513.9	569.8	629.5	558.2	492.4
33.0	477.0	535.0	594.0	523.1	456.5
33.5	440.4	502.0	559.3	488.7	422.6
34.0	405.8	470.0	526.6	455.0	388.0
34.5	373.6	439.1	495.1	423.3	355.2
35.0	343.7	408.6	465.1	394.1	326.9
35.5	316.5	379.0	437.0	366.6	301.4
36.0	291.0	351.4	410.2	339.2	275.6
36.5	268.0	325.6	384.9	312.9	252.0
37.0	247.3	301.5	361.3	289.6	233.0
37.5	228.4	279.3	339.2	268.9	216.5
38.0	211.6	259.0	318.6	248.8	200.0
38.5	196.2	240.5	299.3	229.6	184.8
39.0	183.0	223.8	281.4	213.0	172.9
39.5	170.9	208.2	264.8	199.0	162.9
40.0	160.4	194.2	249.5	185.8	152.6
40.5	151.1	181.4	235.0	172.9	143.6
41.0	142.9	170.1	221.2	162.0	136.6
41.5	135.8	159.8	208.5	153.1	130.3
42.0	129.3	150.6	196.6	144.7	124.1
42.5	123.8	142.4	185.6	136.8	118.9
43.0	118.4	135.3	174.9	130.0	114.5
43.5	114.0	128.7	164.8	124.3	110.4
44.0	109.5	123.1	155.3	119.0	106.4
44.5	105.8	117.8	146.8	114.0	103.0
45.0	102.2	113.2	139.1	109.8	100.0
45.5	98.9	108.8	132.0	106.0	96.9
46.0	95.9	104.9	125.2	102.5	94.0
46.5	92.9	101.3	119.1	99.1	91.4
47.0	90.2	97.9	113.6	96.0	88.8
47.5	87.5	94.8	108.6	93.2	86.1
48.0	85.0	91.8	103.9	90.4	83.7
48.5	82.5	89.0	99.5	87.8	81.4
49.0	80.2	86.4	95.5	85.3	79.0
49.5	77.9	83.8	91.8	82.8	76.8
50.0	75.8	81.4	88.3	80.4	74.6
50.5	73.6	79.1	85.0	78.1	72.5
51.0	71.6	76.8	82.0	75.9	70.4
51.5	69.6	74.7	79.2	73.8	68.5
52.0	67.7	72.6	76.4	71.8	66.6
52.5	65.9	70.6	73.8	69.7	64.8
53.0	64.1	68.6	71.3	67.7	62.9
53.5	62.4	66.7	68.9	65.8	61.2
54.0	60.7	64.8	66.6	63.9	59.5
54.5	59.1	63.0	64.4	62.1	57.9

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CANDELA TABULATION - (Cont.)

55.0	57.6	61.2	62.2	60.4	56.4
55.5	56.1	59.5	60.1	58.7	55.0
56.0	54.7	57.8	58.1	57.0	53.5
56.5	53.3	56.2	56.2	55.4	52.2
57.0	52.0	54.6	54.3	53.9	50.9
57.5	50.6	53.0	52.5	52.3	49.7
58.0	49.4	51.5	50.7	50.9	48.5
58.5	48.1	50.0	49.0	49.4	47.3
59.0	46.9	48.5	47.3	48.0	46.2
59.5	45.7	47.1	45.7	46.6	45.1
60.0	44.5	45.7	44.1	45.3	44.0
60.5	43.2	44.3	42.6	43.9	42.9
61.0	42.1	42.9	41.1	42.6	41.8
61.5	40.8	41.6	39.7	41.4	40.7
62.0	39.7	40.3	38.2	40.1	39.6
62.5	38.5	39.0	36.9	38.9	38.5
63.0	37.4	37.7	35.5	37.7	37.4
63.5	36.2	36.5	34.2	36.4	36.3
64.0	35.1	35.2	32.9	35.3	35.2
64.5	34.0	34.0	31.7	34.1	34.0
65.0	32.9	32.8	30.4	32.9	33.0
65.5	31.8	31.6	29.3	31.7	31.8
66.0	30.7	30.4	28.1	30.6	30.8
66.5	29.6	29.3	27.0	29.4	29.6
67.0	28.5	28.1	25.8	28.3	28.6
67.5	27.4	27.0	24.7	27.2	27.5
68.0	26.4	25.9	23.7	26.1	26.5
68.5	25.3	24.8	22.6	25.1	25.4
69.0	24.2	23.7	21.6	24.0	24.3
69.5	23.2	22.7	20.6	22.9	23.3
70.0	22.1	21.6	19.6	21.9	22.3
70.5	21.0	20.5	18.7	20.8	21.2
71.0	20.0	19.5	17.7	19.8	20.2
71.5	18.9	18.5	16.8	18.8	19.1
72.0	17.9	17.5	15.9	17.7	18.1
72.5	16.8	16.5	14.9	16.7	17.1
73.0	15.8	15.5	14.1	15.8	16.0
73.5	14.8	14.5	13.2	14.8	15.0
74.0	13.7	13.6	12.4	13.8	13.9
74.5	12.7	12.6	11.5	12.8	12.8
75.0	11.6	11.7	10.7	11.9	11.7
75.5	10.4	10.8	10.0	10.9	10.5
76.0	9.2	9.8	9.2	9.9	9.1
76.5	7.9	8.9	8.5	8.9	8.1
77.0	6.9	7.8	7.8	7.8	7.3
77.5	5.9	6.9	7.1	7.0	6.4
78.0	5.4	6.1	6.5	6.3	5.5
78.5	5.1	5.4	5.9	5.6	5.0
79.0	4.8	4.9	5.3	4.9	4.7
79.5	4.5	4.6	4.9	4.5	4.4
80.0	4.3	4.3	4.4	4.2	4.2
80.5	4.0	4.0	4.1	4.0	3.9
81.0	3.7	3.8	3.7	3.7	3.6
81.5	3.5	3.5	3.4	3.4	3.4
82.0	3.2	3.3	3.2	3.2	3.1
82.5	3.0	3.0	2.9	2.9	2.9

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CANDELA TABULATION - (Cont.)

83.0	2.8	2.8	2.7	2.7	2.7
83.5	2.5	2.5	2.4	2.5	2.4
84.0	2.3	2.3	2.2	2.2	2.2
84.5	2.1	2.1	2.0	2.0	2.0
85.0	1.8	1.8	1.8	1.8	1.8
85.5	1.6	1.6	1.6	1.6	1.6
86.0	1.4	1.4	1.4	1.4	1.4
86.5	1.2	1.2	1.1	1.2	1.2
87.0	1.0	1.0	1.0	1.0	1.0
87.5	0.8	0.8	0.8	0.8	0.8
88.0	0.6	0.6	0.6	0.6	0.6
88.5	0.5	0.4	0.4	0.4	0.5
89.0	0.3	0.3	0.3	0.3	0.3
89.5	0.2	0.2	0.2	0.2	0.2
90.0	0.0	0.0	0.0	0.0	0.0
90.5	0.0	0.0	0.0	0.0	0.0
91.0	0.0	0.0	0.0	0.0	0.0
91.5	0.0	0.0	0.0	0.0	0.0
92.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0
93.0	0.0	0.0	0.0	0.0	0.0
93.5	0.0	0.0	0.0	0.0	0.0
94.0	0.0	0.0	0.0	0.0	0.0
94.5	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0
95.5	0.0	0.0	0.0	0.0	0.0
96.0	0.0	0.0	0.0	0.0	0.0
96.5	0.0	0.0	0.0	0.0	0.0
97.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0
98.0	0.0	0.0	0.0	0.0	0.0
98.5	0.0	0.0	0.0	0.0	0.0
99.0	0.0	0.0	0.0	0.0	0.0
99.5	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0
100.5	0.0	0.0	0.0	0.0	0.0
101.0	0.0	0.0	0.0	0.0	0.0
101.5	0.0	0.0	0.0	0.0	0.0
102.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0
103.0	0.0	0.0	0.0	0.0	0.0
103.5	0.0	0.0	0.0	0.0	0.0
104.0	0.0	0.0	0.0	0.0	0.0
104.5	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0
105.5	0.0	0.0	0.0	0.0	0.0
106.0	0.0	0.0	0.0	0.0	0.0
106.5	0.0	0.0	0.0	0.0	0.0
107.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0
108.0	0.0	0.0	0.0	0.0	0.0
108.5	0.0	0.0	0.0	0.0	0.0
109.0	0.0	0.0	0.0	0.0	0.0
109.5	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0
110.5	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

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

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CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	637.79	N.A.	39.50
0-30	1157.49	N.A.	71.70
0-40	1418.53	N.A.	87.90
0-60	1567.29	N.A.	97.10
0-80	1611.79	N.A.	99.90
0-90	1613.87	N.A.	100.00
10-90	1440.31	N.A.	89.20
20-40	780.73	N.A.	48.40
20-50	874.95	N.A.	54.20
40-70	180.89	N.A.	11.20
60-80	44.51	N.A.	2.80
70-80	12.37	N.A.	0.80
80-90	2.08	N.A.	0.10
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	1613.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.56
10-20	464.23
20-30	519.69
30-40	261.04
40-50	94.22
50-60	54.54
60-70	32.13
70-80	12.37
80-90	2.08
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4CS-L15-835-XXX-DIM-UNV-RW-WH.IES

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60
8	79	69	63	59	77	68	63	59	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53
10	71	62	56	52	70	61	56	52	60	55	52	60	55	52	59	55	51	50

IES INDOOR REPORT
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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

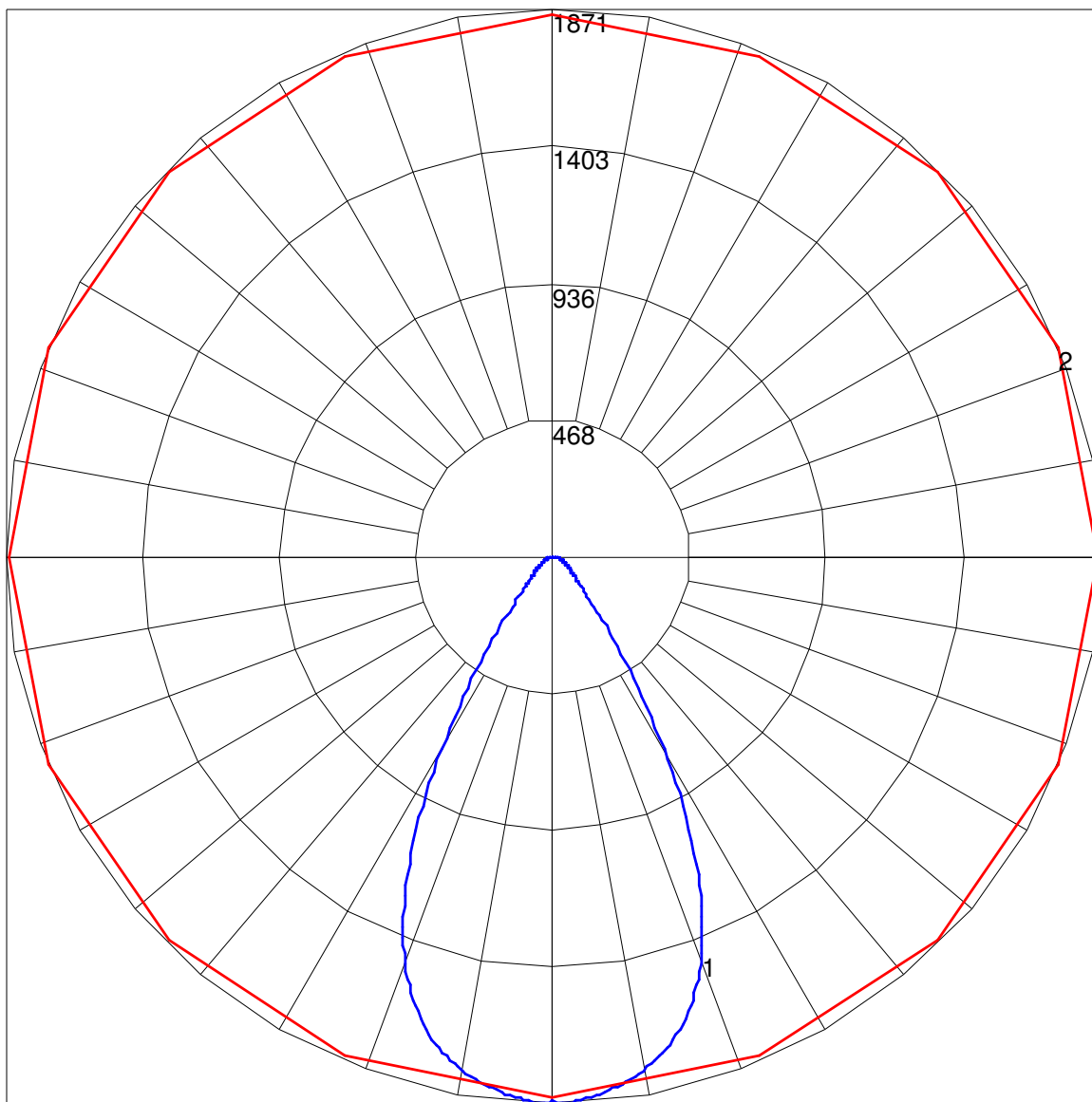
X=2H	Y=2H	18.3	19.4	18.7	19.7	20.0	18.3	19.3	18.6	19.6	19.9
	3H	19.4	20.4	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.0
	4H	19.7	20.5	20.1	20.9	21.3	19.7	20.5	20.1	20.9	21.2
	6H	19.7	20.5	20.1	20.8	21.2	19.6	20.4	20.1	20.8	21.2
	8H	19.7	20.4	20.1	20.8	21.2	19.6	20.4	20.1	20.8	21.2
	12H	19.6	20.3	20.1	20.7	21.1	19.6	20.3	20.0	20.7	21.1

UGR Viewed Endwise

4H	2H	18.6	19.5	19.0	19.8	20.2	18.5	19.4	18.9	19.7	20.1
	3H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.2	20.9	21.3
	4H	20.1	20.8	20.6	21.2	21.6	20.1	20.7	20.5	21.2	21.6
	6H	20.2	20.7	20.6	21.2	21.6	20.2	20.7	20.6	21.1	21.6
	8H	20.1	20.7	20.6	21.1	21.6	20.1	20.6	20.6	21.1	21.6
	12H	20.1	20.6	20.6	21.1	21.5	20.1	20.5	20.6	21.0	21.5
8H	4H	20.1	20.6	20.6	21.1	21.6	20.1	20.6	20.6	21.1	21.5
	6H	20.2	20.6	20.7	21.1	21.6	20.2	20.6	20.7	21.1	21.6
	8H	20.2	20.6	20.7	21.1	21.6	20.2	20.5	20.7	21.1	21.6
	12H	20.2	20.5	20.7	21.0	21.6	20.2	20.5	20.7	21.0	21.6
12H	4H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.5	21.0	21.5
	6H	20.2	20.5	20.7	21.0	21.5	20.2	20.5	20.7	21.0	21.5
	8H	20.2	20.5	20.7	21.0	21.6	20.2	20.5	20.7	21.0	21.6

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1871 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)