



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-935-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12326812.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 11-28-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L40-935-DIM-UNV-LW-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glas
 [MORE] s patterned 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	3135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	36.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.46 ft (Diameter)
Luminous Width (90-270)	0.46 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	52110	52110	52110
55	43384	43384	43384
65	32959	32959	32959
75	23902	23902	23902
85	15576	15576	15576

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CANDELA TABULATION

	<u>0</u>
0.0	1994.028
0.5	1993.626
1.0	1992.020
1.5	1989.611
2.0	1986.600
2.5	1982.585
3.0	1978.570
3.5	1973.953
4.0	1969.737
4.5	1965.522
5.0	1962.510
5.5	1959.700
6.0	1957.090
6.5	1954.481
7.0	1951.670
7.5	1949.060
8.0	1946.451
8.5	1944.042
9.0	1941.633
9.5	1939.625
10.0	1937.618
10.5	1936.012
11.0	1934.607
11.5	1933.804
12.0	1932.398
12.5	1930.993
13.0	1928.986
13.5	1926.376
14.0	1923.164
14.5	1919.550
15.0	1915.736
15.5	1910.918
16.0	1905.699
16.5	1900.479
17.0	1895.260
17.5	1889.840
18.0	1884.018
18.5	1877.393
19.0	1869.966
19.5	1861.735
20.0	1852.300
20.5	1842.062
21.0	1829.415
21.5	1814.359
22.0	1797.295
22.5	1778.023
23.0	1756.945
23.5	1734.059
24.0	1708.765
24.5	1681.464
25.0	1651.954
25.5	1621.239
26.0	1588.517
26.5	1554.390

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CANDELA TABULATION - (Cont.)

27.0	1518.055
27.5	1480.716
28.0	1441.369
28.5	1399.814
29.0	1356.654
29.5	1311.285
30.0	1264.711
30.5	1216.732
31.0	1168.754
31.5	1120.373
32.0	1073.398
32.5	1028.431
33.0	985.270
33.5	944.920
34.0	907.782
34.5	874.056
35.0	843.944
35.5	816.241
36.0	791.950
36.5	769.667
37.0	749.793
37.5	731.926
38.0	715.666
38.5	700.811
39.0	686.758
39.5	674.111
40.0	661.865
40.5	650.423
41.0	639.783
41.5	629.344
42.0	619.307
42.5	610.073
43.0	600.637
43.5	591.403
44.0	582.369
44.5	573.536
45.0	564.503
45.5	555.871
46.0	547.038
46.5	538.205
47.0	529.171
47.5	520.338
48.0	511.305
48.5	502.271
49.0	493.237
49.5	483.802
50.0	474.769
50.5	465.534
51.0	456.300
51.5	446.865
52.0	437.429
52.5	427.994
53.0	418.559
53.5	409.124
54.0	400.090
54.5	390.856

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CANDELA TABULATION - (Cont.)

55.0	381.220
55.5	371.785
56.0	362.350
56.5	353.517
57.0	344.684
57.5	335.450
58.0	326.215
58.5	317.182
59.0	308.349
59.5	299.516
60.0	291.084
60.5	282.653
61.0	274.422
61.5	266.192
62.0	258.362
62.5	250.533
63.0	242.905
63.5	235.276
64.0	227.849
64.5	220.622
65.0	213.395
65.5	206.369
66.0	199.363
66.5	192.477
67.0	185.672
67.5	179.007
68.0	172.462
68.5	165.898
69.0	159.534
69.5	153.231
70.0	147.108
70.5	141.186
71.0	135.384
71.5	129.763
72.0	124.343
72.5	119.084
73.0	113.965
73.5	108.946
74.0	104.128
74.5	99.410
75.0	94.773
75.5	90.296
76.0	85.900
76.5	81.584
77.0	77.388
77.5	73.273
78.0	69.278
78.5	65.363
79.0	61.529
79.5	57.835
80.0	54.162
80.5	50.609
81.0	47.095
81.5	43.602
82.0	40.190
82.5	36.797

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CANDELA TABULATION - (Cont.)

83.0	33.485
83.5	30.233
84.0	27.021
84.5	23.869
85.0	20.797
85.5	17.826
86.0	14.956
86.5	12.185
87.0	9.495
87.5	7.247
88.0	5.541
88.5	4.055
89.0	2.810
89.5	1.767
90.0	1.124
90.5	0.000
91.0	0.000
91.5	0.000
92.0	0.000
92.5	0.000
93.0	0.000
93.5	0.000
94.0	0.000
94.5	0.000
95.0	0.000
95.5	0.000
96.0	0.000
96.5	0.000
97.0	0.000
97.5	0.000
98.0	0.000
98.5	0.000
99.0	0.000
99.5	0.000
100.0	0.000
100.5	0.000
101.0	0.000
101.5	0.000
102.0	0.000
102.5	0.000
103.0	0.000
103.5	0.000
104.0	0.000
104.5	0.000
105.0	0.000
105.5	0.000
106.0	0.000
106.5	0.000
107.0	0.000
107.5	0.000
108.0	0.000
108.5	0.000
109.0	0.000
109.5	0.000
110.0	0.000
110.5	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000
111.5	0.000
112.0	0.000
112.5	0.000
113.0	0.000
113.5	0.000
114.0	0.000
114.5	0.000
115.0	0.000
115.5	0.000
116.0	0.000
116.5	0.000
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135.5	0.000
136.0	0.000
136.5	0.000
137.0	0.000
137.5	0.000
138.0	0.000
138.5	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000
139.5	0.000
140.0	0.000
140.5	0.000
141.0	0.000
141.5	0.000
142.0	0.000
142.5	0.000
143.0	0.000
143.5	0.000
144.0	0.000
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162.0	0.000
162.5	0.000
163.0	0.000
163.5	0.000
164.0	0.000
164.5	0.000
165.0	0.000
165.5	0.000
166.0	0.000
166.5	0.000

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CANDELA TABULATION - (Cont.)

167.0	0.000
167.5	0.000
168.0	0.000
168.5	0.000
169.0	0.000
169.5	0.000
170.0	0.000
170.5	0.000
171.0	0.000
171.5	0.000
172.0	0.000
172.5	0.000
173.0	0.000
173.5	0.000
174.0	0.000
174.5	0.000
175.0	0.000
175.5	0.000
176.0	0.000
176.5	0.000
177.0	0.000
177.5	0.000
178.0	0.000
178.5	0.000
179.0	0.000
179.5	0.000
180.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	726.36	N.A.	23.20
0-30	1468.27	N.A.	46.80
0-40	2018.4	N.A.	64.40
0-60	2795.18	N.A.	89.20
0-80	3109.81	N.A.	99.20
0-90	3134.67	N.A.	100.00
10-90	2948.07	N.A.	94.00
20-40	1292.04	N.A.	41.20
20-50	1727.97	N.A.	55.10
40-70	989.49	N.A.	31.60
60-80	314.63	N.A.	10.00
70-80	101.92	N.A.	3.30
80-90	24.86	N.A.	0.80
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3134.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.60
10-20	539.76
20-30	741.91
30-40	550.13
40-50	435.93
50-60	340.85
60-70	212.71
70-80	101.92
80-90	24.86
90-100	0.03
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

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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

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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	23.0	24.4	23.4	24.7	25.0	23.0	24.4	23.4	24.7	25.0
	3H	24.2	25.5	24.6	25.8	26.1	24.2	25.5	24.6	25.8	26.1
	4H	24.6	25.8	25.0	26.1	26.5	24.6	25.8	25.0	26.1	26.5
	6H	24.9	25.9	25.3	26.3	26.7	24.9	25.9	25.3	26.3	26.7
	8H	24.9	26.0	25.4	26.4	26.8	24.9	26.0	25.4	26.4	26.8
	12H	25.0	25.9	25.4	26.3	26.8	25.0	25.9	25.4	26.3	26.8

UGR Viewed Endwise

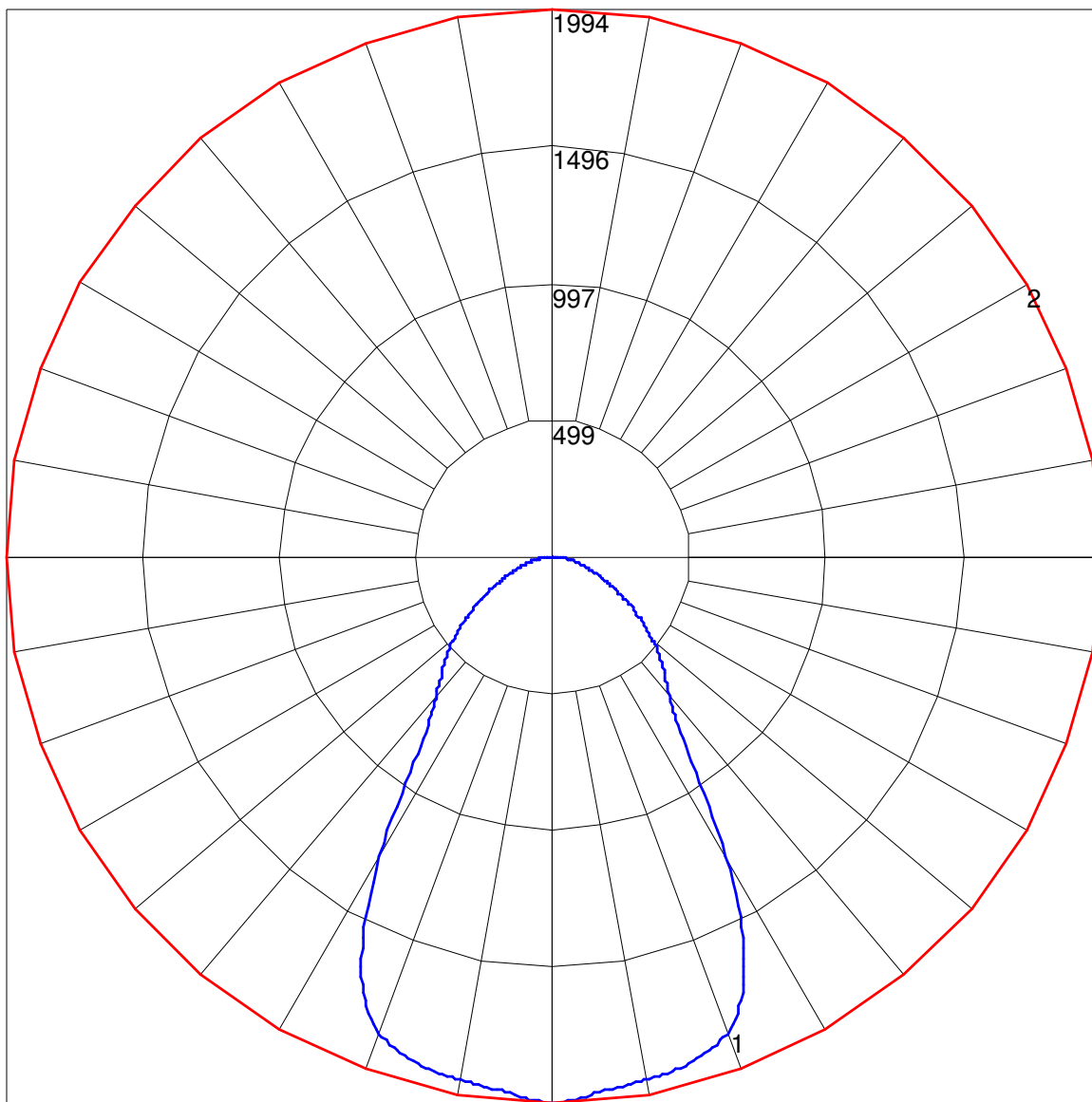
4H	2H	23.4	24.6	23.8	24.9	25.3	23.4	24.6	23.8	24.9	25.3
	3H	24.8	25.8	25.2	26.2	26.6	24.8	25.8	25.2	26.2	26.6
	4H	25.3	26.2	25.7	26.6	27.0	25.3	26.2	25.7	26.6	27.0
	6H	25.7	26.4	26.2	26.9	27.3	25.7	26.4	26.2	26.9	27.3
	8H	25.8	26.5	26.2	26.9	27.4	25.8	26.5	26.2	26.9	27.4
	12H	25.9	26.5	26.3	27.0	27.4	25.9	26.5	26.3	27.0	27.4

8H	4H	25.5	26.2	25.9	26.6	27.1	25.5	26.2	25.9	26.6	27.1
	6H	25.9	26.5	26.4	27.0	27.5	25.9	26.5	26.4	27.0	27.5
	8H	26.1	26.6	26.6	27.1	27.6	26.1	26.6	26.6	27.1	27.6
	12H	26.2	26.7	26.7	27.2	27.7	26.2	26.7	26.7	27.2	27.7

12H	4H	25.5	26.1	25.9	26.6	27.0	25.5	26.1	25.9	26.6	27.0
	6H	26.0	26.5	26.5	26.9	27.5	26.0	26.5	26.5	26.9	27.5
	8H	26.2	26.6	26.7	27.1	27.7	26.2	26.6	26.7	27.1	27.7

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 1994.028 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)