



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-840-(L27)-DIM-UNV-LW-OF-WH-PD_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12326812.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 01-05-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L30-840-(L27)-DIM-UNV-LW-OF-WH-PD
 [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	2309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	26.9
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	38380	38380	38380
55	31952	31952	31952
65	24275	24275	24275
75	17604	17604	17604
85	11471	11471	11471

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CANDELA TABULATION

	<u>0</u>
0.0	1468.615
0.5	1468.319
1.0	1467.136
1.5	1465.362
2.0	1463.144
2.5	1460.187
3.0	1457.230
3.5	1453.830
4.0	1450.725
4.5	1447.620
5.0	1445.402
5.5	1443.332
6.0	1441.410
6.5	1439.488
7.0	1437.418
7.5	1435.496
8.0	1433.574
8.5	1431.800
9.0	1430.026
9.5	1428.547
10.0	1427.068
10.5	1425.886
11.0	1424.851
11.5	1424.259
12.0	1423.224
12.5	1422.189
13.0	1420.711
13.5	1418.789
14.0	1416.423
14.5	1413.762
15.0	1410.953
15.5	1407.404
16.0	1403.560
16.5	1399.716
17.0	1395.872
17.5	1391.880
18.0	1387.592
18.5	1382.713
19.0	1377.242
19.5	1371.180
20.0	1364.231
20.5	1356.691
21.0	1347.376
21.5	1336.287
22.0	1323.720
22.5	1309.526
23.0	1294.002
23.5	1277.146
24.0	1258.517
24.5	1238.409
25.0	1216.675
25.5	1194.054
26.0	1169.954
26.5	1144.819

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L30-840-(L27)-DIM-UNV-LW-OF-WH-PD_.IES****CANDELA TABULATION - (Cont.)**

27.0	1118.058
27.5	1090.557
28.0	1061.578
28.5	1030.973
29.0	999.184
29.5	965.770
30.0	931.468
30.5	896.132
31.0	860.795
31.5	825.163
32.0	790.565
32.5	757.446
33.0	725.658
33.5	695.940
34.0	668.587
34.5	643.748
35.0	621.570
35.5	601.167
36.0	583.277
36.5	566.865
37.0	552.228
37.5	539.069
38.0	527.093
38.5	516.152
39.0	505.802
39.5	496.487
40.0	487.468
40.5	479.041
41.0	471.205
41.5	463.516
42.0	456.124
42.5	449.323
43.0	442.373
43.5	435.572
44.0	428.919
44.5	422.413
45.0	415.760
45.5	409.402
46.0	402.897
46.5	396.391
47.0	389.738
47.5	383.233
48.0	376.579
48.5	369.926
49.0	363.273
49.5	356.324
50.0	349.670
50.5	342.869
51.0	336.068
51.5	329.119
52.0	322.170
52.5	315.221
53.0	308.272
53.5	301.323
54.0	294.669
54.5	287.868

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55.0	280.771
55.5	273.822
56.0	266.873
56.5	260.368
57.0	253.862
57.5	247.061
58.0	240.260
58.5	233.606
59.0	227.101
59.5	220.595
60.0	214.386
60.5	208.176
61.0	202.114
61.5	196.052
62.0	190.286
62.5	184.519
63.0	178.901
63.5	173.283
64.0	167.812
64.5	162.489
65.0	157.167
65.5	151.992
66.0	146.832
66.5	141.761
67.0	136.748
67.5	131.840
68.0	127.020
68.5	122.185
69.0	117.498
69.5	112.856
70.0	108.346
70.5	103.984
71.0	99.711
71.5	95.572
72.0	91.580
72.5	87.706
73.0	83.936
73.5	80.239
74.0	76.691
74.5	73.216
75.0	69.801
75.5	66.504
76.0	63.266
76.5	60.087
77.0	56.997
77.5	53.966
78.0	51.024
78.5	48.141
79.0	45.317
79.5	42.596
80.0	39.890
80.5	37.274
81.0	34.686
81.5	32.113
82.0	29.600
82.5	27.101

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83.0	24.662
83.5	22.267
84.0	19.901
84.5	17.580
85.0	15.317
85.5	13.129
86.0	11.015
86.5	8.975
87.0	6.993
87.5	5.337
88.0	4.081
88.5	2.987
89.0	2.070
89.5	1.301
90.0	0.828
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L30-840-(L27)-DIM-UNV-LW-OF-WH-PD_.IES****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
117.0	0.000
117.5	0.000
118.0	0.000
118.5	0.000
119.0	0.000
119.5	0.000
120.0	0.000
120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
122.5	0.000
123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
133.5	0.000
134.0	0.000
134.5	0.000
135.0	0.000
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L30-840-(L27)-DIM-UNV-LW-OF-WH-PD_.IES****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
144.5	0.000
145.0	0.000
145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
156.5	0.000
157.0	0.000
157.5	0.000
158.0	0.000
158.5	0.000
159.0	0.000
159.5	0.000
160.0	0.000
160.5	0.000
161.0	0.000
161.5	0.000
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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Zone	Lumens	%Lamp	%Fixt
0-20	534.97	N.A.	23.20
0-30	1081.39	N.A.	46.80
0-40	1486.57	N.A.	64.40
0-60	2058.67	N.A.	89.20
0-80	2290.4	N.A.	99.20
0-90	2308.71	N.A.	100.00
10-90	2171.28	N.A.	94.00
20-40	951.60	N.A.	41.20
20-50	1272.66	N.A.	55.10
40-70	728.76	N.A.	31.60
60-80	231.73	N.A.	10.00
70-80	75.07	N.A.	3.30
80-90	18.31	N.A.	0.80
90-110	0.02	N.A.	0.00
90-120	0.02	N.A.	0.00
90-130	0.02	N.A.	0.00
90-150	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2308.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.43
10-20	397.54
20-30	546.42
30-40	405.18
40-50	321.06
50-60	251.04
60-70	156.66
70-80	75.07
80-90	18.31
90-100	0.02
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

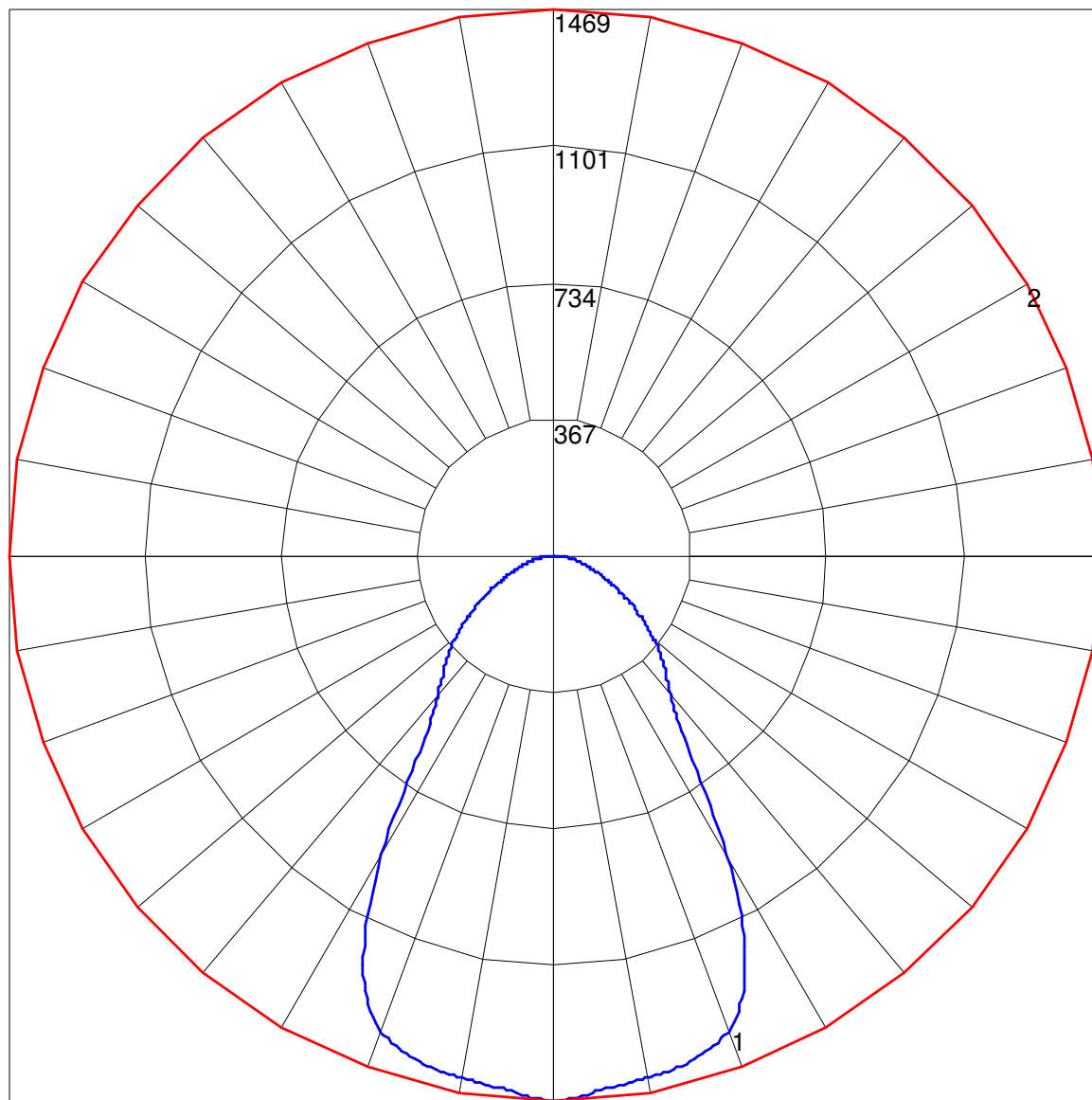
X=2H	Y=2H	21.9	23.3	22.3	23.6	23.9	21.9	23.3	22.3	23.6	23.9
	3H	23.1	24.4	23.5	24.7	25.0	23.1	24.4	23.5	24.7	25.0
	4H	23.5	24.7	23.9	25.0	25.4	23.5	24.7	23.9	25.0	25.4
	6H	23.8	24.8	24.2	25.2	25.6	23.8	24.8	24.2	25.2	25.6
	8H	23.9	24.9	24.3	25.3	25.7	23.9	24.9	24.3	25.3	25.7
	12H	23.9	24.9	24.3	25.2	25.7	23.9	24.9	24.3	25.2	25.7

UGR Viewed Endwise

4H	2H	22.3	23.5	22.7	23.8	24.2	22.3	23.5	22.7	23.8	24.2
	3H	23.7	24.7	24.1	25.1	25.5	23.7	24.7	24.1	25.1	25.5
	4H	24.2	25.1	24.7	25.5	25.9	24.2	25.1	24.7	25.5	25.9
	6H	24.6	25.3	25.1	25.8	26.2	24.6	25.3	25.1	25.8	26.2
	8H	24.7	25.4	25.1	25.8	26.3	24.7	25.4	25.1	25.8	26.3
	12H	24.8	25.4	25.2	25.9	26.3	24.8	25.4	25.2	25.9	26.3
8H	4H	24.4	25.1	24.8	25.5	26.0	24.4	25.1	24.8	25.5	26.0
	6H	24.8	25.4	25.3	25.9	26.4	24.8	25.4	25.3	25.9	26.4
	8H	25.0	25.5	25.5	26.0	26.5	25.0	25.5	25.5	26.0	26.5
	12H	25.1	25.6	25.6	26.1	26.6	25.1	25.6	25.6	26.1	26.6
12H	4H	24.4	25.0	24.9	25.5	25.9	24.4	25.0	24.9	25.5	25.9
	6H	24.9	25.4	25.4	25.8	26.4	24.9	25.4	25.4	25.8	26.4
	8H	25.1	25.5	25.6	26.0	26.6	25.1	25.5	25.6	26.0	26.6

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 1468.615 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.)