



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-940-DIM-UNV-LM-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.09

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11/16/2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 6DR-TL-L30-940-DIM-UNV-LM-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl

[MORE] astic optic, clear glass 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	2336
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	26.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.56
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	10436	10436	10436
55	7641	7641	7641
65	6226	6226	6226
75	5067	5067	5067
85	3334	3334	3334

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CANDELA TABULATION

	<u>0</u>
0.0	5516.366
0.5	5513.823
1.0	5506.193
1.5	5494.748
2.0	5479.488
2.5	5457.870
3.0	5433.709
3.5	5405.733
4.0	5372.671
4.5	5338.336
5.0	5300.187
5.5	5256.952
6.0	5209.901
6.5	5157.764
7.0	5101.812
7.5	5040.773
8.0	4973.376
8.5	4900.893
9.0	4824.595
9.5	4743.210
10.0	4655.467
10.5	4562.637
11.0	4463.450
11.5	4356.632
12.0	4245.999
12.5	4129.009
13.0	4006.931
13.5	3878.496
14.0	3746.246
14.5	3608.909
15.0	3469.029
15.5	3326.605
16.0	3184.182
16.5	3040.487
17.0	2900.606
17.5	2760.726
18.0	2619.574
18.5	2480.966
19.0	2343.629
19.5	2211.379
20.0	2082.943
20.5	1959.594
21.0	1843.875
21.5	1733.243
22.0	1622.610
22.5	1518.336
23.0	1419.148
23.5	1325.047
24.0	1237.431
24.5	1154.520
25.0	1077.077
25.5	1004.085
26.0	936.434
26.5	873.107

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CANDELA TABULATION - (Cont.)

27.0	814.230
27.5	759.677
28.0	708.811
28.5	661.760
29.0	618.143
29.5	577.451
30.0	539.810
30.5	504.713
31.0	472.159
31.5	441.894
32.0	413.664
32.5	387.468
33.0	363.053
33.5	340.290
34.0	319.308
34.5	299.852
35.0	281.668
35.5	265.009
36.0	249.495
36.5	235.380
37.0	222.282
37.5	210.329
38.0	199.520
38.5	189.474
39.0	180.318
39.5	171.925
40.0	164.296
40.5	157.174
41.0	150.689
41.5	144.712
42.0	139.117
42.5	134.031
43.0	129.198
43.5	124.748
44.0	120.678
44.5	116.736
45.0	113.049
45.5	109.615
46.0	106.436
46.5	103.384
47.0	100.459
47.5	97.662
48.0	95.119
48.5	92.575
49.0	90.159
49.5	87.870
50.0	85.708
50.5	83.547
51.0	81.512
51.5	79.477
52.0	77.570
52.5	75.790
53.0	73.882
53.5	72.102
54.0	70.449
54.5	68.796

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CANDELA TABULATION - (Cont.)

55.0	67.142
55.5	65.489
56.0	63.963
56.5	62.437
57.0	60.911
57.5	59.385
58.0	57.987
58.5	56.588
59.0	55.189
59.5	53.917
60.0	52.646
60.5	51.247
61.0	49.975
61.5	48.704
62.0	47.432
62.5	46.288
63.0	45.016
63.5	43.872
64.0	42.727
64.5	41.583
65.0	40.311
65.5	39.166
66.0	38.022
66.5	37.005
67.0	35.860
67.5	34.716
68.0	33.698
68.5	32.681
69.0	31.537
69.5	30.519
70.0	29.502
70.5	28.485
71.0	27.595
71.5	26.577
72.0	25.560
72.5	24.670
73.0	23.652
73.5	22.762
74.0	21.872
74.5	20.982
75.0	20.092
75.5	19.202
76.0	18.312
76.5	17.421
77.0	16.531
77.5	15.768
78.0	14.878
78.5	14.115
79.0	13.352
79.5	12.462
80.0	11.699
80.5	10.936
81.0	10.173
81.5	9.410
82.0	8.647
82.5	7.884

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CANDELA TABULATION - (Cont.)

83.0	7.248
83.5	6.485
84.0	5.850
84.5	5.087
85.0	4.451
85.5	3.815
86.0	3.179
86.5	2.670
87.0	2.162
87.5	1.780
88.0	1.399
88.5	1.144
89.0	0.890
89.5	0.636
90.0	0.381
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
117.0	0.000
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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

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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
144.5	0.000
145.0	0.000
145.5	0.000
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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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1418.73	N.A.	60.70
0-30	1932.55	N.A.	82.70
0-40	2119.39	N.A.	90.70
0-60	2269.59	N.A.	97.10
0-80	2331.05	N.A.	99.80
0-90	2336.48	N.A.	100.00
10-90	1850.7	N.A.	79.20
20-40	700.66	N.A.	30.00
20-50	790.36	N.A.	33.80
40-70	190.31	N.A.	8.10
60-80	61.46	N.A.	2.60
70-80	21.34	N.A.	0.90
80-90	5.43	N.A.	0.20
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2336.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	485.78
10-20	932.95
20-30	513.82
30-40	186.84
40-50	89.70
50-60	60.50
60-70	40.12
70-80	21.34
80-90	5.43
90-100	0.01
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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

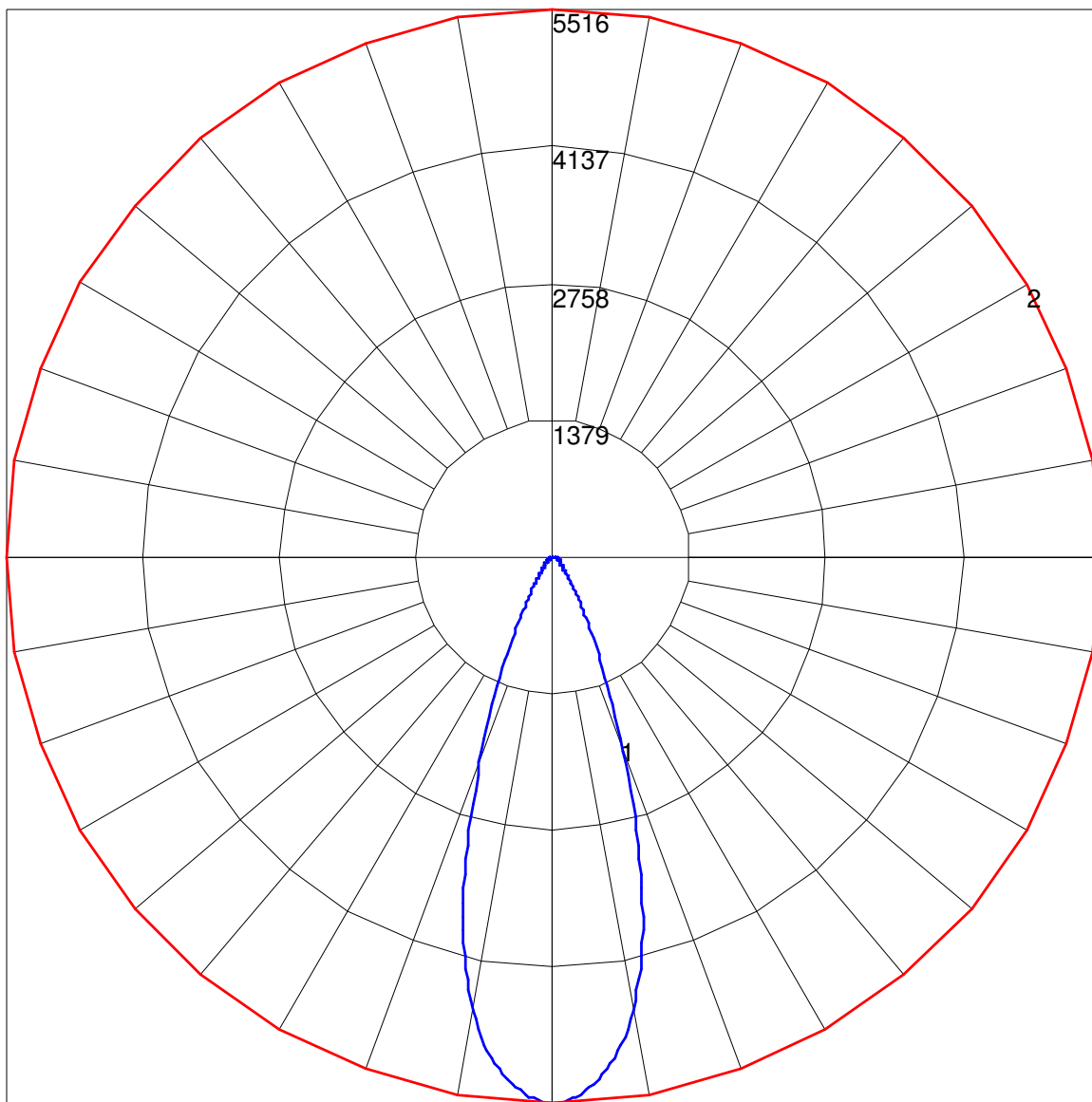
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	12.5	13.5	12.8	13.8	14.1	12.5	13.5	12.8	13.8	14.1
	3H	13.9	14.8	14.3	15.1	15.5	13.9	14.8	14.3	15.1	15.5
	4H	14.4	15.2	14.8	15.6	16.0	14.4	15.2	14.8	15.6	16.0
	6H	14.7	15.5	15.2	15.9	16.3	14.7	15.5	15.2	15.9	16.3
	8H	14.8	15.5	15.3	15.9	16.3	14.8	15.5	15.3	15.9	16.3
	12H	14.9	15.5	15.3	15.9	16.4	14.9	15.5	15.3	15.9	16.4
4H	2H	12.9	13.7	13.3	14.1	14.5	12.9	13.7	13.3	14.1	14.5
	3H	14.5	15.2	14.9	15.6	16.0	14.5	15.2	14.9	15.6	16.0
	4H	15.1	15.7	15.5	16.1	16.6	15.1	15.7	15.5	16.1	16.6
	6H	15.6	16.1	16.0	16.5	17.0	15.6	16.1	16.0	16.5	17.0
	8H	15.7	16.2	16.2	16.6	17.1	15.7	16.2	16.2	16.6	17.1
	12H	15.8	16.2	16.3	16.7	17.1	15.8	16.2	16.3	16.7	17.1
8H	4H	15.3	15.8	15.8	16.2	16.7	15.3	15.8	15.8	16.2	16.7
	6H	15.8	16.2	16.4	16.7	17.2	15.8	16.2	16.4	16.7	17.2
	8H	16.0	16.4	16.6	16.9	17.4	16.0	16.4	16.6	16.9	17.4
	12H	16.2	16.5	16.7	17.0	17.5	16.2	16.5	16.7	17.0	17.5
12H	4H	15.3	15.7	15.8	16.2	16.6	15.3	15.7	15.8	16.2	16.6
	6H	15.9	16.2	16.4	16.7	17.2	15.9	16.2	16.4	16.7	17.2
	8H	16.1	16.4	16.6	16.9	17.5	16.1	16.4	16.6	16.9	17.5

Maximum UGR = 17.5

POLAR GRAPH



Maximum Candela = 5516.366 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.)