



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L60-835-DIM-UNV-LW-OF-WH-AD_TBX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12326812.11
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 16 SEPT2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L60-835-DIM-UNV-LW-OF-WH-AD
 [LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl
 [MORE] astic lens enclosure
 [LAMP] One white LED
 [BALLAST] Philips XI025C070V054DSM5

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3871
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.02
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	69202	69202	69202
55	63070	63070	63070
65	62496	62496	62496
75	65259	65259	65259
85	53300	53300	53300

CANDELA TABULATION

	<u>0</u>
0.0	2178.861
0.5	2178.277
1.0	2176.816
1.5	2174.187
2.0	2170.389
2.5	2165.715
3.0	2160.164
3.5	2154.029
4.0	2147.017
4.5	2139.713
5.0	2132.409
5.5	2124.229
6.0	2115.465
6.5	2106.408
7.0	2096.475
7.5	2086.250
8.0	2075.440
8.5	2064.046
9.0	2052.360
9.5	2040.090
10.0	2027.527
10.5	2014.380
11.0	2000.649
11.5	1986.042
12.0	1971.142
12.5	1955.366
13.0	1939.298
13.5	1922.353
14.0	1904.824
14.5	1887.003
15.0	1868.305
15.5	1849.315
16.0	1830.033
16.5	1810.459
17.0	1790.885
17.5	1771.019
18.0	1751.153
18.5	1730.994
19.0	1711.128
19.5	1690.969
20.0	1670.519
20.5	1650.360
21.0	1629.618
21.5	1608.583
22.0	1587.256
22.5	1565.345
23.0	1543.141
23.5	1520.645
24.0	1497.858
24.5	1474.778
25.0	1451.698
25.5	1428.618
26.0	1405.538
26.5	1382.750

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CANDELA TABULATION - (Cont.)

27.0	1360.255
27.5	1337.759
28.0	1315.848
28.5	1293.936
29.0	1272.901
29.5	1251.867
30.0	1231.416
30.5	1211.258
31.0	1191.099
31.5	1171.525
32.0	1151.951
32.5	1132.669
33.0	1113.387
33.5	1094.689
34.0	1075.700
34.5	1057.586
35.0	1039.765
35.5	1021.944
36.0	1004.415
36.5	987.178
37.0	970.525
37.5	954.165
38.0	938.097
38.5	922.320
39.0	907.129
39.5	892.229
40.0	877.621
40.5	863.306
41.0	849.575
41.5	836.136
42.0	822.989
42.5	810.134
43.0	797.572
43.5	785.302
44.0	773.031
44.5	761.345
45.0	749.659
45.5	738.265
46.0	727.164
46.5	716.062
47.0	704.960
47.5	694.443
48.0	683.633
48.5	673.116
49.0	662.890
49.5	652.957
50.0	643.024
50.5	633.383
51.0	623.742
51.5	614.393
52.0	605.045
52.5	595.988
53.0	586.931
53.5	578.751
54.0	570.863
54.5	562.683

CANDELA TABULATION - (Cont.)

55.0	554.210
55.5	545.738
56.0	537.558
56.5	529.670
57.0	522.950
57.5	515.354
58.0	507.466
58.5	499.870
59.0	492.274
59.5	484.678
60.0	477.082
60.5	469.779
61.0	462.475
61.5	455.171
62.0	447.867
62.5	440.564
63.0	433.260
63.5	426.248
64.0	418.944
64.5	411.641
65.0	404.629
65.5	397.325
66.0	390.021
66.5	382.718
67.0	375.414
67.5	368.402
68.0	361.099
68.5	354.087
69.0	346.783
69.5	339.771
70.0	332.468
70.5	325.456
71.0	318.444
71.5	311.141
72.0	304.129
72.5	296.825
73.0	289.492
73.5	282.013
74.0	274.388
74.5	266.617
75.0	258.758
75.5	250.782
76.0	242.631
76.5	234.334
77.0	225.862
77.5	217.243
78.0	208.420
78.5	199.451
79.0	190.395
79.5	181.134
80.0	171.756
80.5	162.261
81.0	152.620
81.5	142.833
82.0	132.899
82.5	122.820

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CANDELA TABULATION - (Cont.)

83.0	112.624
83.5	102.370
84.0	91.998
84.5	81.598
85.0	71.168
85.5	60.767
86.0	50.454
86.5	40.609
87.0	31.874
87.5	24.774
88.0	18.610
88.5	13.147
89.0	8.297
89.5	4.645
90.0	2.366
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

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

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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
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L60-835-DIM-UNV-LW-OF-WH-AD_TBX.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	722.37	N.A.	18.70
0-30	1387.76	N.A.	35.80
0-40	2039.35	N.A.	52.70
0-60	3117.4	N.A.	80.50
0-80	3788.67	N.A.	97.90
0-90	3870.97	N.A.	100.00
10-90	3670.77	N.A.	94.80
20-40	1316.99	N.A.	34.00
20-50	1897.63	N.A.	49.00
40-70	1478.63	N.A.	38.20
60-80	671.27	N.A.	17.30
70-80	270.68	N.A.	7.00
80-90	82.30	N.A.	2.10
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3871.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.20
10-20	522.16
20-30	665.40
30-40	651.59
40-50	580.65
50-60	497.40
60-70	400.59
70-80	270.68
80-90	82.30
90-100	0.06
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	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40	38
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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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

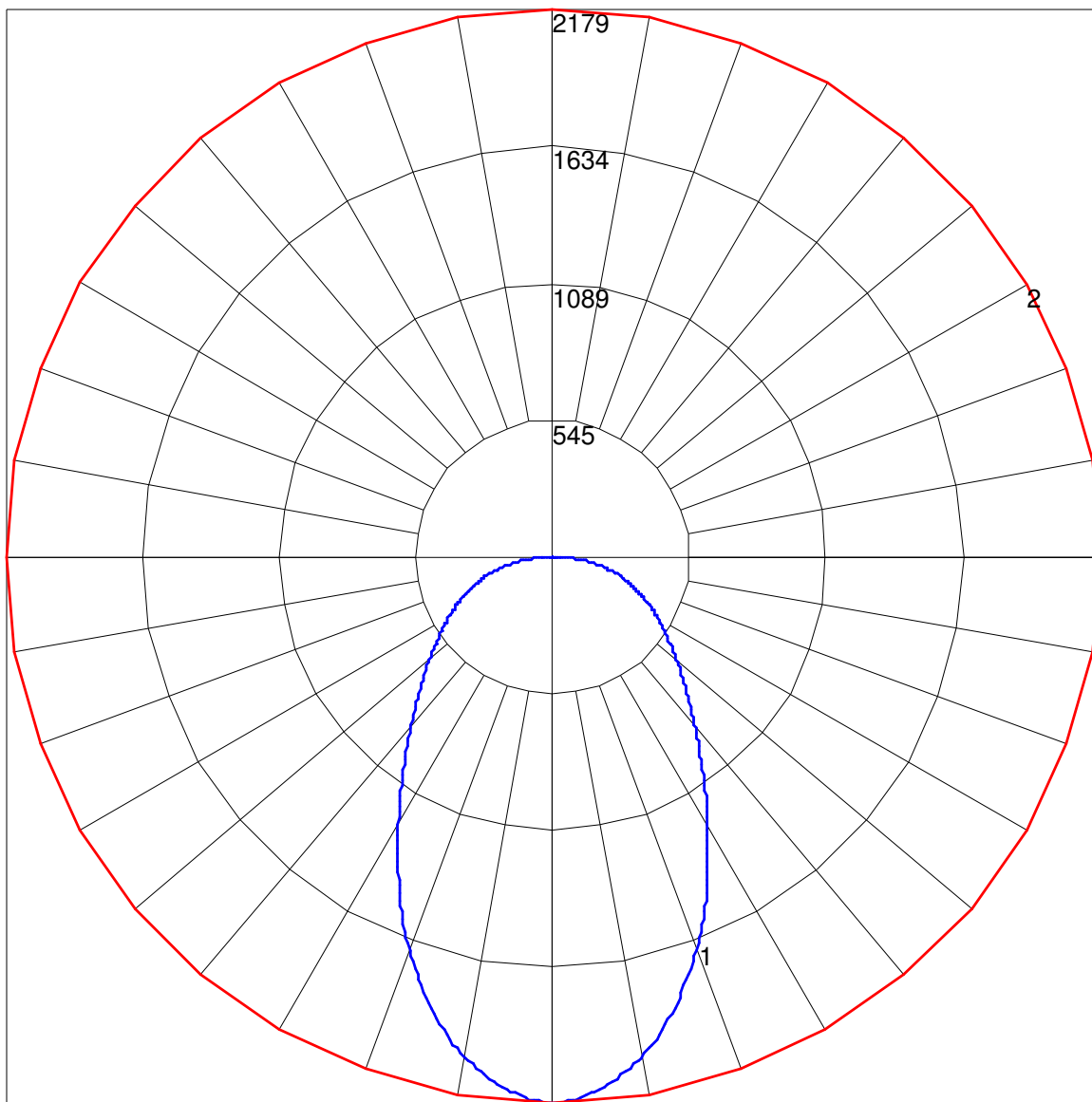
X=2H	Y=2H	25.1	26.6	25.4	26.9	27.2	25.1	26.6	25.4	26.9	27.2
	3H	27.2	28.6	27.6	28.9	29.3	27.2	28.6	27.6	28.9	29.3
	4H	28.1	29.4	28.5	29.8	30.1	28.1	29.4	28.5	29.8	30.1
	6H	28.8	30.1	29.2	30.4	30.8	28.8	30.1	29.2	30.4	30.8
	8H	29.1	30.3	29.5	30.7	31.1	29.1	30.3	29.5	30.7	31.1
	12H	29.2	30.4	29.7	30.8	31.2	29.2	30.4	29.7	30.8	31.2

UGR Viewed Endwise

4H	2H	25.7	27.1	26.1	27.4	27.8	25.7	27.1	26.1	27.4	27.8
	3H	28.1	29.2	28.5	29.6	30.0	28.1	29.2	28.5	29.6	30.0
	4H	29.2	30.2	29.6	30.6	31.0	29.2	30.2	29.6	30.6	31.0
	6H	30.1	31.0	30.5	31.4	31.9	30.1	31.0	30.5	31.4	31.9
	8H	30.4	31.2	30.9	31.7	32.1	30.4	31.2	30.9	31.7	32.1
	12H	30.6	31.4	31.1	31.8	32.3	30.6	31.4	31.1	31.8	32.3
8H	4H	29.6	30.4	30.1	30.9	31.3	29.6	30.4	30.1	30.9	31.3
	6H	30.7	31.3	31.2	31.8	32.3	30.7	31.3	31.2	31.8	32.3
	8H	31.1	31.7	31.6	32.2	32.7	31.1	31.7	31.6	32.2	32.7
	12H	31.4	31.9	31.9	32.4	33.0	31.4	31.9	31.9	32.4	33.0
12H	4H	29.7	30.4	30.1	30.9	31.3	29.7	30.4	30.1	30.9	31.3
	6H	30.8	31.4	31.3	31.8	32.4	30.8	31.4	31.3	31.8	32.4
	8H	31.2	31.8	31.7	32.3	32.8	31.2	31.8	31.7	32.3	32.8

Maximum UGR = 33.0

POLAR GRAPH



Maximum Candela = 2178.861 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.)