

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-835-BL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.05
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-11
[TEST DATE] 11/11/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6LDR-L20-835-BL-DIM-UNV
[LUMINAIRE] 4" recessed downlight with textured black finish reflector
[MORE] and top diffuser lens
[LAMP] LED
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	749
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	17
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	5284	5284	5284
55	684	684	684
65	237	237	237
75	103	103	103
85	68	68	68

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-835-BL-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	749.000
0.5	749.000
1.0	749.000
1.5	748.461
2.0	747.922
2.5	747.383
3.0	746.845
3.5	745.228
4.0	744.150
4.5	743.073
5.0	741.456
5.5	740.378
6.0	738.223
6.5	736.606
7.0	734.451
7.5	732.296
8.0	730.140
8.5	727.446
9.0	724.752
9.5	722.057
10.0	719.363
10.5	716.130
11.0	712.897
11.5	709.664
12.0	705.892
12.5	702.659
13.0	698.348
13.5	695.115
14.0	690.804
14.5	687.032
15.0	682.722
15.5	678.411
16.0	674.639
16.5	670.328
17.0	667.095
17.5	662.784
18.0	658.473
18.5	654.163
19.0	648.774
19.5	642.847
20.0	636.919
20.5	630.992
21.0	623.987
21.5	616.982
22.0	608.899
22.5	600.816
23.0	591.656
23.5	581.957
24.0	571.180
24.5	559.864
25.0	548.548
25.5	536.693
26.0	524.300
26.5	511.529

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-835-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	498.435
27.5	484.964
28.0	471.169
28.5	457.159
29.0	443.095
29.5	428.870
30.0	414.698
30.5	400.419
31.0	386.085
31.5	371.806
32.0	357.634
32.5	343.570
33.0	329.668
33.5	316.035
34.0	302.618
34.5	289.308
35.0	276.322
35.5	263.551
36.0	250.996
36.5	238.548
37.0	226.424
37.5	214.462
38.0	202.769
38.5	191.291
39.0	179.976
39.5	168.821
40.0	157.990
40.5	147.429
41.0	137.137
41.5	127.168
42.0	117.523
42.5	108.201
43.0	99.364
43.5	90.904
44.0	82.875
44.5	75.331
45.0	68.218
45.5	61.537
46.0	55.340
46.5	49.628
47.0	44.401
47.5	39.605
48.0	35.241
48.5	31.253
49.0	27.697
49.5	24.518
50.0	21.662
50.5	19.129
51.0	16.920
51.5	15.034
52.0	13.363
52.5	11.909
53.0	10.669
53.5	9.592
54.0	8.675
54.5	7.867

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-835-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	7.167
55.5	6.628
56.0	6.143
56.5	5.766
57.0	5.442
57.5	5.119
58.0	4.796
58.5	4.472
59.0	4.203
59.5	3.880
60.0	3.664
60.5	3.395
61.0	3.179
61.5	2.964
62.0	2.748
62.5	2.586
63.0	2.425
63.5	2.263
64.0	2.102
64.5	1.994
65.0	1.832
65.5	1.724
66.0	1.617
66.5	1.509
67.0	1.401
67.5	1.347
68.0	1.239
68.5	1.185
69.0	1.078
69.5	1.024
70.0	0.970
70.5	0.916
71.0	0.862
71.5	0.808
72.0	0.754
72.5	0.701
73.0	0.647
73.5	0.647
74.0	0.593
74.5	0.539
75.0	0.485
75.5	0.485
76.0	0.431
76.5	0.431
77.0	0.377
77.5	0.377
78.0	0.323
78.5	0.323
79.0	0.323
79.5	0.269
80.0	0.269
80.5	0.216
81.0	0.216
81.5	0.216
82.0	0.216
82.5	0.162

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-835-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.162
83.5	0.162
84.0	0.108
84.5	0.108
85.0	0.108
85.5	0.108
86.0	0.108
86.5	0.054
87.0	0.054
87.5	0.054
88.0	0.054
88.5	0.054
89.0	0.054
89.5	0.054
90.0	0.000
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 : 6LDR-L20-835-BL-DIM-UNV_.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 : 6LDR-L20-835-BL-DIM-UNV_.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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-835-BL-DIM-UNV_.IES

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 : 6LDR-L20-835-BL-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	262.13	N.A.	35.00
0-30	509.20	N.A.	68.00
0-40	681.63	N.A.	91.00
0-60	746.59	N.A.	99.60
0-80	749.12	N.A.	100.00
0-90	749.26	N.A.	100.00
10-90	679.17	N.A.	90.60
20-40	419.50	N.A.	56.00
20-50	476.56	N.A.	63.60
40-70	66.92	N.A.	8.90
60-80	2.54	N.A.	0.30
70-80	0.57	N.A.	0.10
80-90	0.13	N.A.	0.00
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	749.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.08
10-20	192.04
20-30	247.07
30-40	172.43
40-50	57.05
50-60	7.90
60-70	1.96
70-80	0.57
80-90	0.13
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 : 6LDR-L20-835-BL-DIM-UNV_.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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	72	80	75	72	79	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	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	54	50	49

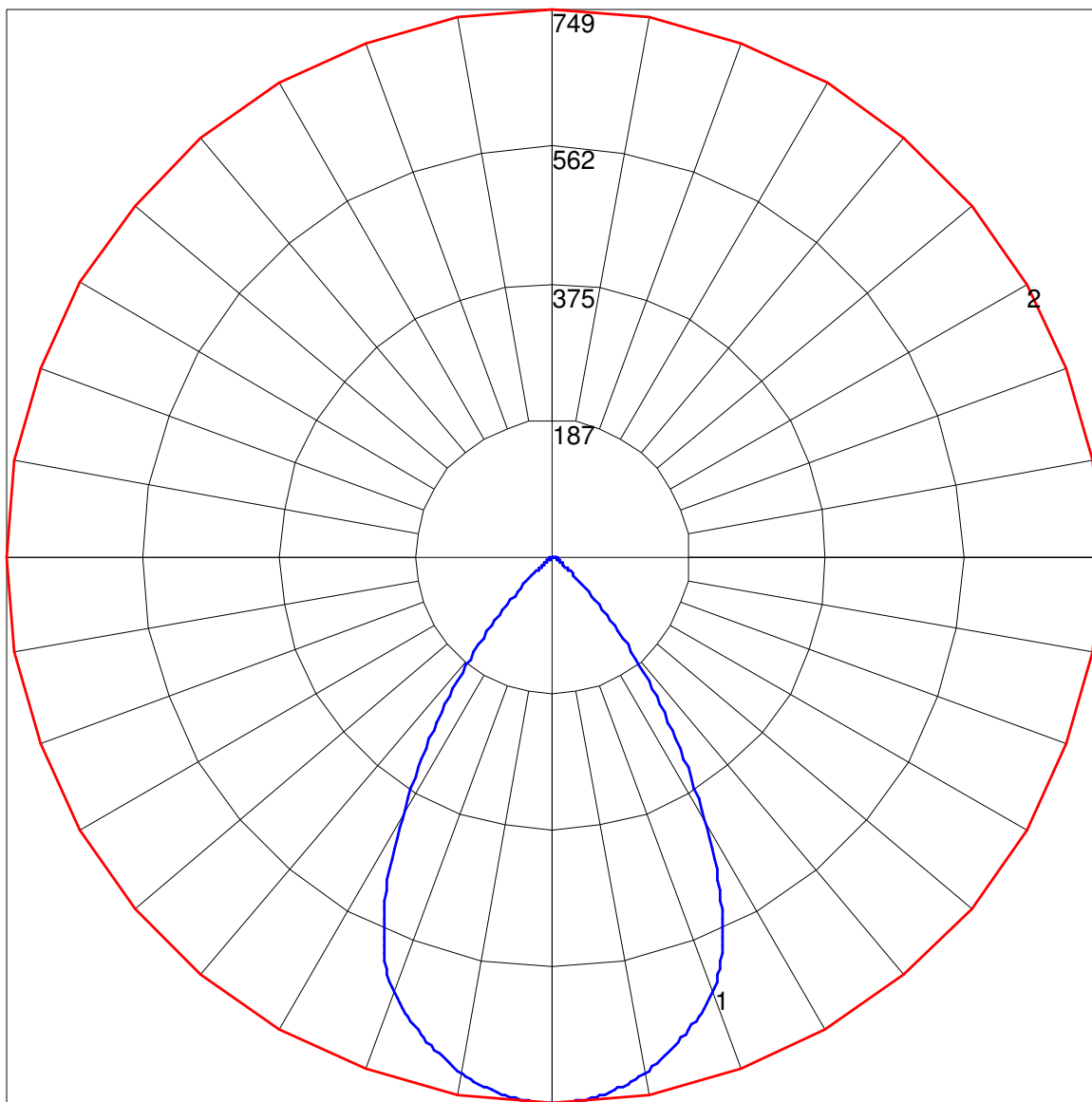
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-835-BL-DIM-UNV_.IES

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	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
	3H	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.1	0.4
	4H	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4
	6H	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
	8H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
	12H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
4H	2H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
	3H	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
	4H	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
	6H	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
	8H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
	12H	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
8H	4H	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
	6H	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
	8H	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12H	4H	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Maximum UGR = 0.4

POLAR GRAPH



Maximum Candela = 749 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.)