

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572192

Luminaire Tested: 24ID-65-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-65-L835-DBR
Description: 6500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

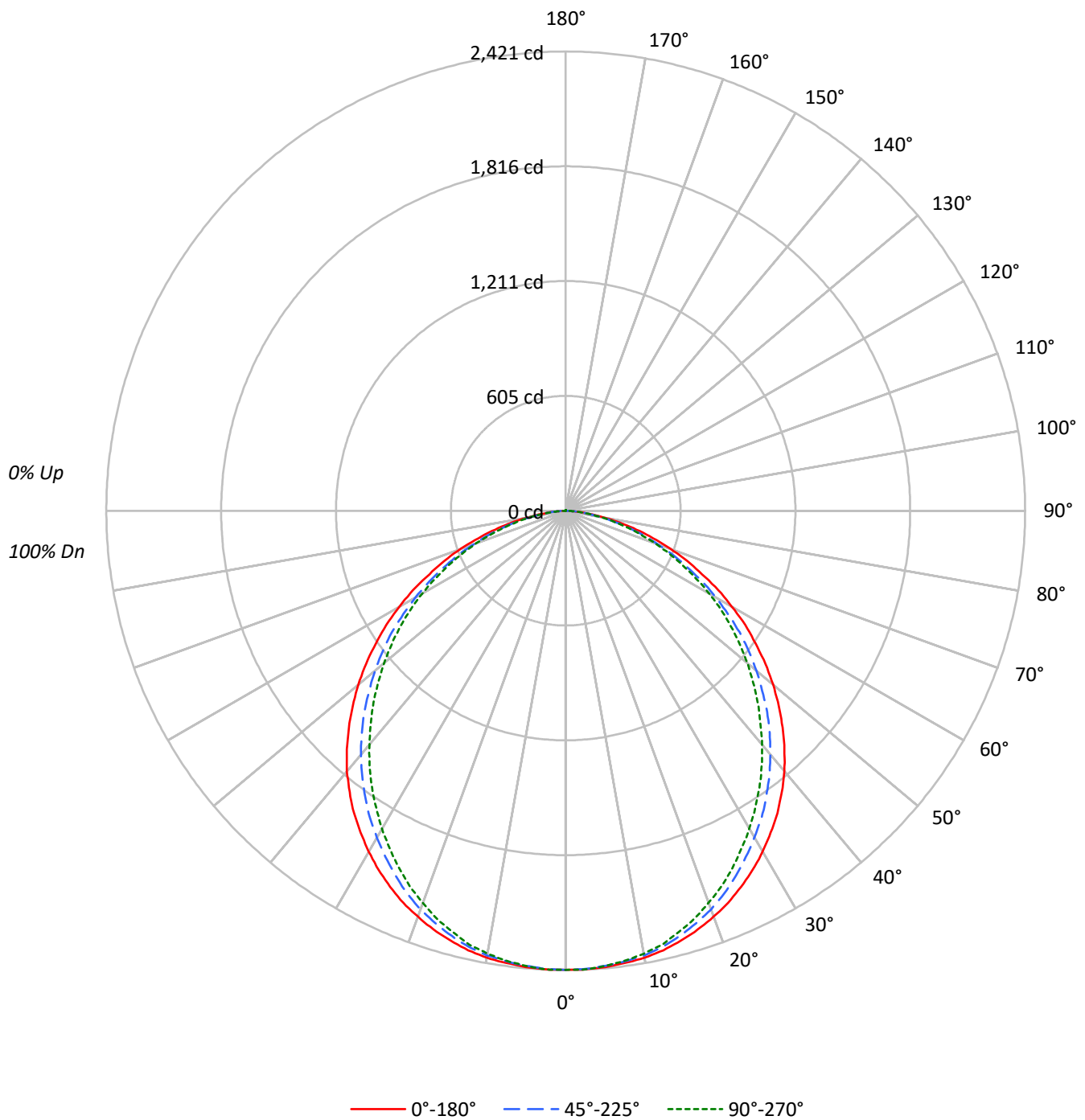
Lumens per Lamp: N/A
Luminaire Lumens: 6362.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P572192

CATALOG NUMBER: 24ID-65-L835-DBR

Luminous Intensity Polar Plot



TEST NUMBER: P572192

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3257	3257	3257
5°	3261	3253	3253
10°	3269	3252	3239
15°	3268	3233	3203
20°	3261	3204	3150
25°	3248	3151	3086
30°	3225	3090	3008
35°	3195	3027	2925
40°	3149	2947	2827
45°	3075	2856	2726
50°	2986	2745	2615
55°	2865	2624	2493
60°	2718	2458	2350
65°	2523	2256	2167
70°	2310	2029	1968
75°	2003	1745	1696
80°	1613	1372	1372
85°	815	863	815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3075 cd/sqm

TEST NUMBER: P572192

CATALOG NUMBER: 24ID-65-L835-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	3.6
10°-20°	654.7	10.3
20°-30°	980.2	15.4
30°-40°	1158.5	18.2
40°-50°	1166.2	18.3
50°-60°	1009.1	15.9
60°-70°	718.7	11.3
70°-80°	369.0	5.8
80°-90°	76.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1863.9	29.3
0°-40°	3022.4	47.5
0°-60°	5197.7	81.7
0°-90°	6361.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2421	2421	2421	2421	2421	
5°	2414	2411	2408	2405	2408	230
15°	2346	2337	2321	2303	2300	662
25°	2188	2169	2122	2088	2079	1008
35°	1945	1914	1843	1796	1781	1215
45°	1616	1582	1501	1448	1432	1246
55°	1221	1187	1119	1072	1063	1093
65°	792	764	708	684	680	789
75°	385	367	336	323	326	411
85°	53	53	56	56	53	79
90°	0	0	0	0	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	3	0
180°	0	0	0	0	0	

TEST NUMBER: P572192

CATALOG NUMBER: 24ID-65-L835-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2420.7	2420.7	2420.7	2420.7	2420.7
2.5°	2420.7	2417.6	2417.6	2414.5	2420.7
5°	2414.5	2411.4	2408.3	2405.2	2408.3
7.5°	2405.2	2399.0	2395.9	2389.6	2392.7
10°	2392.7	2386.5	2380.3	2371.0	2371.0
12.5°	2374.1	2367.9	2355.5	2343.0	2343.0
15°	2346.1	2336.8	2321.3	2302.6	2299.5
17.5°	2315.1	2302.6	2280.9	2259.1	2256.0
20°	2277.8	2265.3	2237.4	2209.4	2200.1
22.5°	2237.4	2221.8	2184.5	2153.5	2144.2
25°	2187.7	2169.0	2122.4	2088.2	2078.9
27.5°	2134.8	2110.0	2057.1	2019.9	2007.4
30°	2075.8	2050.9	1988.8	1951.5	1936.0
32.5°	2010.5	1982.6	1920.4	1873.8	1858.3
35°	1945.3	1914.2	1842.7	1796.1	1780.6
37.5°	1870.7	1836.5	1761.9	1712.2	1696.7
40°	1793.0	1758.8	1678.0	1628.3	1609.7
42.5°	1706.0	1671.8	1591.0	1538.2	1519.6
45°	1615.9	1581.7	1500.9	1448.1	1432.5
47.5°	1522.7	1482.3	1404.6	1354.9	1339.3
50°	1426.3	1385.9	1311.4	1261.6	1249.2
52.5°	1326.9	1286.5	1215.0	1165.3	1156.0
55°	1221.2	1187.1	1118.7	1072.1	1062.8
57.5°	1121.8	1084.5	1013.0	978.9	969.5
60°	1009.9	978.9	913.6	882.5	873.2
62.5°	907.4	876.3	811.0	776.9	773.8
65°	792.4	764.4	708.5	683.6	680.5
67.5°	693.0	661.9	615.3	590.4	590.4
70°	587.3	559.3	515.8	500.3	500.3
72.5°	481.7	463.0	425.7	410.2	413.3
75°	385.3	366.7	335.6	323.2	326.3
77.5°	295.2	273.5	254.8	245.5	248.6
80°	208.2	192.7	177.1	174.0	177.1
82.5°	124.3	115.0	111.9	111.9	111.9
85°	52.8	52.8	55.9	55.9	52.8
87.5°	21.8	18.6	18.6	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572192

CATALOG NUMBER: 24ID-65-L835-DBR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	3.1	0.0	3.1	3.1	3.1
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	3.1	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	3.1
177.5°	0.0	0.0	3.1	3.1	3.1
180°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.83	17.43	16.20	17.75	18.06	15.06	16.67	15.43	16.98	17.29
	3H	17.46	18.90	17.83	19.23	19.59	16.62	18.06	16.99	18.39	18.75
	4H	18.01	19.36	18.41	19.71	20.09	17.14	18.50	17.54	18.84	19.22
	6H	18.36	19.62	18.77	19.98	20.37	17.47	18.73	17.88	19.09	19.48
	8H	18.44	19.64	18.86	20.03	20.42	17.55	18.75	17.98	19.14	19.54
	12H	18.46	19.61	18.89	19.99	20.42	17.58	18.73	18.01	19.11	19.54
4H	2H	16.29	17.65	16.69	18.00	18.38	15.67	17.03	16.07	17.38	17.75
	3H	18.13	19.26	18.54	19.66	20.06	17.42	18.55	17.83	18.95	19.35
	4H	18.80	19.82	19.23	20.23	20.67	18.04	19.06	18.47	19.48	19.91
	6H	19.25	20.14	19.71	20.58	21.04	18.47	19.36	18.93	19.80	20.26
	8H	19.36	20.19	19.82	20.63	21.10	18.58	19.41	19.04	19.86	20.32
	12H	19.40	20.15	19.89	20.63	21.10	18.64	19.38	19.12	19.86	20.33
8H	4H	18.98	19.81	19.44	20.26	20.72	18.30	19.13	18.76	19.58	20.04
	6H	19.52	20.21	20.01	20.70	21.17	18.81	19.50	19.31	19.99	20.47
	8H	19.67	20.28	20.18	20.79	21.28	18.97	19.58	19.48	20.09	20.58
	12H	19.74	20.29	20.25	20.78	21.34	19.06	19.60	19.57	20.10	20.66
12H	4H	18.99	19.73	19.47	20.21	20.68	18.32	19.06	18.80	19.54	20.01
	6H	19.53	20.15	20.04	20.65	21.14	18.84	19.46	19.35	19.96	20.45
	8H	19.71	20.26	20.22	20.75	21.31	19.03	19.58	19.54	20.07	20.63