

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: P572200

Luminaire Tested: 24ID-70-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572200
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-70-L835-DBR
Description: 7000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

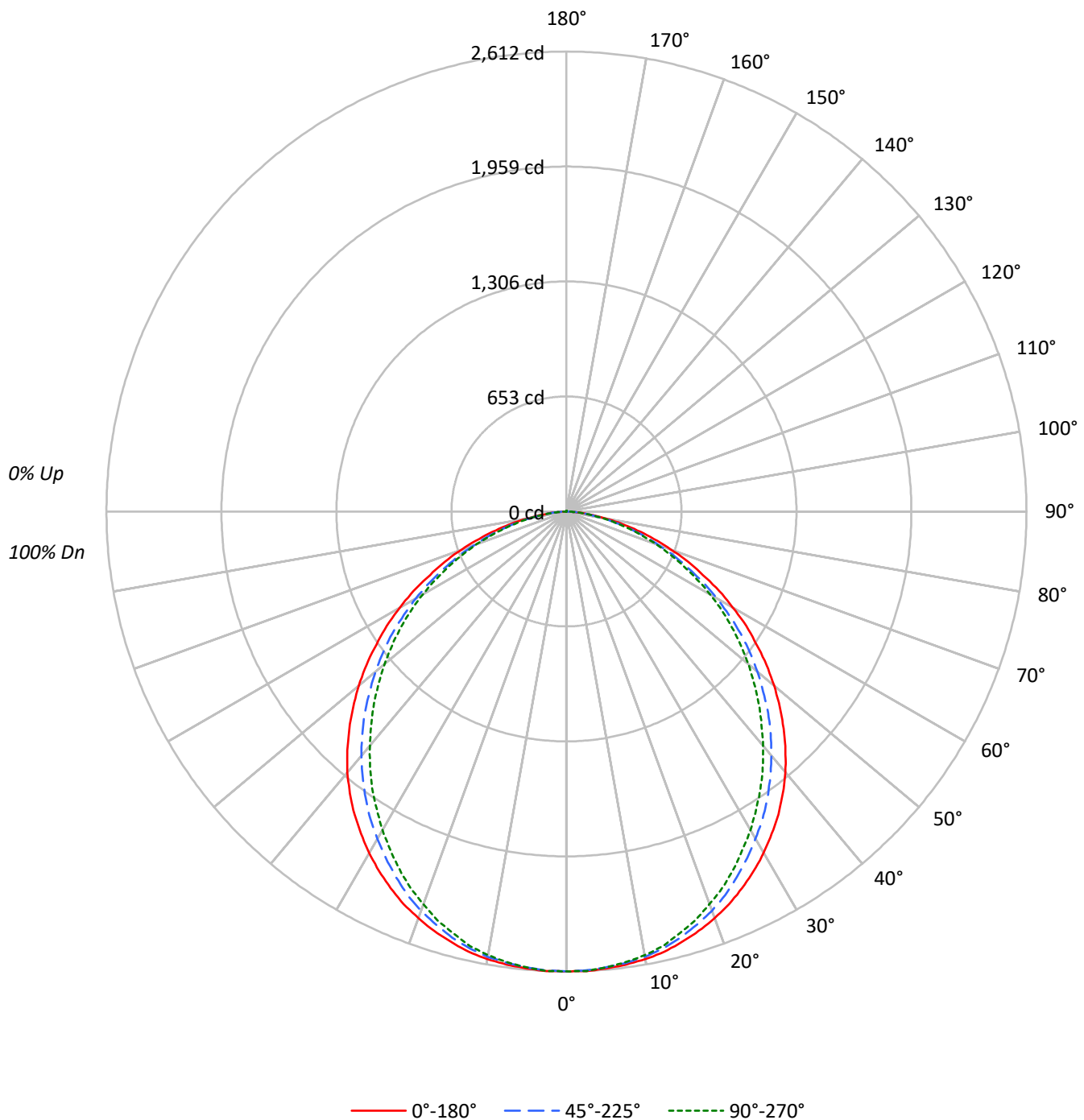
Lumens per Lamp: N/A
Luminaire Lumens: 6865.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.6
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: P572200

CATALOG NUMBER: 24ID-70-L835-DBR

Luminous Intensity Polar Plot



TEST NUMBER: P572200

CATALOG NUMBER: 24ID-70-L835-DBR

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3515	3515	3515
5°	3519	3510	3510
10°	3528	3509	3496
15°	3526	3489	3456
20°	3519	3457	3399
25°	3505	3400	3330
30°	3480	3334	3246
35°	3448	3266	3156
40°	3398	3180	3051
45°	3318	3082	2941
50°	3222	2962	2822
55°	3091	2832	2690
60°	2933	2653	2535
65°	2722	2434	2338
70°	2493	2190	2124
75°	2162	1882	1830
80°	1741	1481	1481
85°	880	932	880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3318 cd/sqm

TEST NUMBER: P572200

CATALOG NUMBER: 24ID-70-L835-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	3.6
10°-20°	706.5	10.3
20°-30°	1057.7	15.4
30°-40°	1250.1	18.2
40°-50°	1258.4	18.3
50°-60°	1088.9	15.9
60°-70°	775.5	11.3
70°-80°	398.2	5.8
80°-90°	82.4	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°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2011.3	29.3
0°-40°	3261.4	47.5
0°-60°	5608.6	81.7
0°-90°	6864.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2612	2612	2612	2612	2612	
5°	2605	2602	2599	2595	2599	248
15°	2532	2522	2505	2485	2481	715
25°	2361	2340	2290	2253	2243	1088
35°	2099	2066	1988	1938	1921	1312
45°	1744	1707	1620	1563	1546	1344
55°	1318	1281	1207	1157	1147	1179
65°	855	825	764	738	734	852
75°	416	396	362	349	352	444
85°	57	57	60	60	57	86
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: P572200

CATALOG NUMBER: 24ID-70-L835-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2612.1	2612.1	2612.1	2612.1	2612.1
2.5°	2612.1	2608.8	2608.8	2605.4	2612.1
5°	2605.4	2602.0	2598.7	2595.3	2598.7
7.5°	2595.3	2588.6	2585.3	2578.6	2581.9
10°	2581.9	2575.2	2568.5	2558.5	2558.5
12.5°	2561.8	2555.1	2541.7	2528.3	2528.3
15°	2531.6	2521.6	2504.8	2484.7	2481.3
17.5°	2498.1	2484.7	2461.2	2437.7	2434.4
20°	2457.9	2444.4	2414.3	2384.1	2374.0
22.5°	2414.3	2397.5	2357.3	2323.7	2313.7
25°	2360.6	2340.5	2290.2	2253.3	2243.3
27.5°	2303.6	2276.8	2219.8	2179.5	2166.1
30°	2239.9	2213.1	2146.0	2105.8	2089.0
32.5°	2169.5	2139.3	2072.2	2022.0	2005.2
35°	2099.1	2065.5	1988.4	1938.1	1921.4
37.5°	2018.6	1981.7	1901.2	1847.6	1830.8
40°	1934.8	1897.9	1810.7	1757.1	1736.9
42.5°	1840.9	1804.0	1716.8	1659.8	1639.7
45°	1743.6	1706.8	1619.6	1562.6	1545.8
47.5°	1643.0	1599.5	1515.6	1462.0	1445.2
50°	1539.1	1495.5	1415.0	1361.4	1348.0
52.5°	1431.8	1388.2	1311.1	1257.4	1247.4
55°	1317.8	1280.9	1207.1	1156.8	1146.8
57.5°	1210.5	1170.2	1093.1	1056.2	1046.2
60°	1089.8	1056.2	985.8	952.3	942.2
62.5°	979.1	945.6	875.2	838.3	834.9
65°	855.1	824.9	764.5	737.7	734.3
67.5°	747.8	714.2	663.9	637.1	637.1
70°	633.7	603.6	556.6	539.9	539.9
72.5°	519.7	499.6	459.4	442.6	446.0
75°	415.8	395.7	362.1	348.7	352.1
77.5°	318.5	295.1	275.0	264.9	268.3
80°	224.7	207.9	191.1	187.8	191.1
82.5°	134.1	124.1	120.7	120.7	120.7
85°	57.0	57.0	60.4	60.4	57.0
87.5°	23.5	20.1	20.1	23.5	23.5
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: P572200

CATALOG NUMBER: 24ID-70-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°	3.4	0.0	3.4	3.4	3.4
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	3.4	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	3.4
177.5°	0.0	0.0	3.4	3.4	3.4
180°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572200

CATALOG NUMBER: 24ID-70-L835-DBR

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	16.10	17.70	16.46	18.01	18.33	15.33	16.93	15.69	17.24	17.56
	3H	17.72	19.16	18.10	19.49	19.85	16.88	18.32	17.26	18.65	19.01
	4H	18.27	19.63	18.67	19.98	20.35	17.40	18.76	17.80	19.11	19.48
	6H	18.62	19.88	19.04	20.25	20.64	17.73	18.99	18.14	19.35	19.75
	8H	18.70	19.90	19.13	20.29	20.69	17.81	19.01	18.24	19.40	19.80
	12H	18.72	19.87	19.15	20.25	20.68	17.85	18.99	18.27	19.37	19.80
4H	2H	16.56	17.92	16.96	18.26	18.64	15.94	17.29	16.33	17.64	18.02
	3H	18.39	19.52	18.80	19.92	20.32	17.69	18.82	18.10	19.22	19.62
	4H	19.06	20.08	19.49	20.49	20.93	18.31	19.33	18.74	19.74	20.18
	6H	19.52	20.41	19.97	20.85	21.31	18.74	19.62	19.19	20.07	20.52
	8H	19.62	20.46	20.09	20.90	21.36	18.85	19.68	19.31	20.12	20.59
	12H	19.67	20.41	20.15	20.89	21.36	18.90	19.64	19.38	20.12	20.59
8H	4H	19.25	20.08	19.71	20.52	20.99	18.57	19.40	19.03	19.84	20.31
	6H	19.78	20.47	20.28	20.96	21.44	19.08	19.76	19.57	20.25	20.73
	8H	19.93	20.55	20.44	21.05	21.54	19.23	19.85	19.74	20.36	20.84
	12H	20.01	20.55	20.51	21.04	21.60	19.32	19.87	19.83	20.36	20.92
12H	4H	19.25	20.00	19.73	20.47	20.94	18.58	19.33	19.06	19.81	20.27
	6H	19.79	20.41	20.30	20.92	21.40	19.10	19.72	19.61	20.23	20.71
	8H	19.98	20.52	20.49	21.01	21.58	19.30	19.84	19.81	20.33	20.90

END OF REPORT