

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: P572144

Luminaire Tested: 24ID-35-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572144
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-35-L835-DBR
Description: 3500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

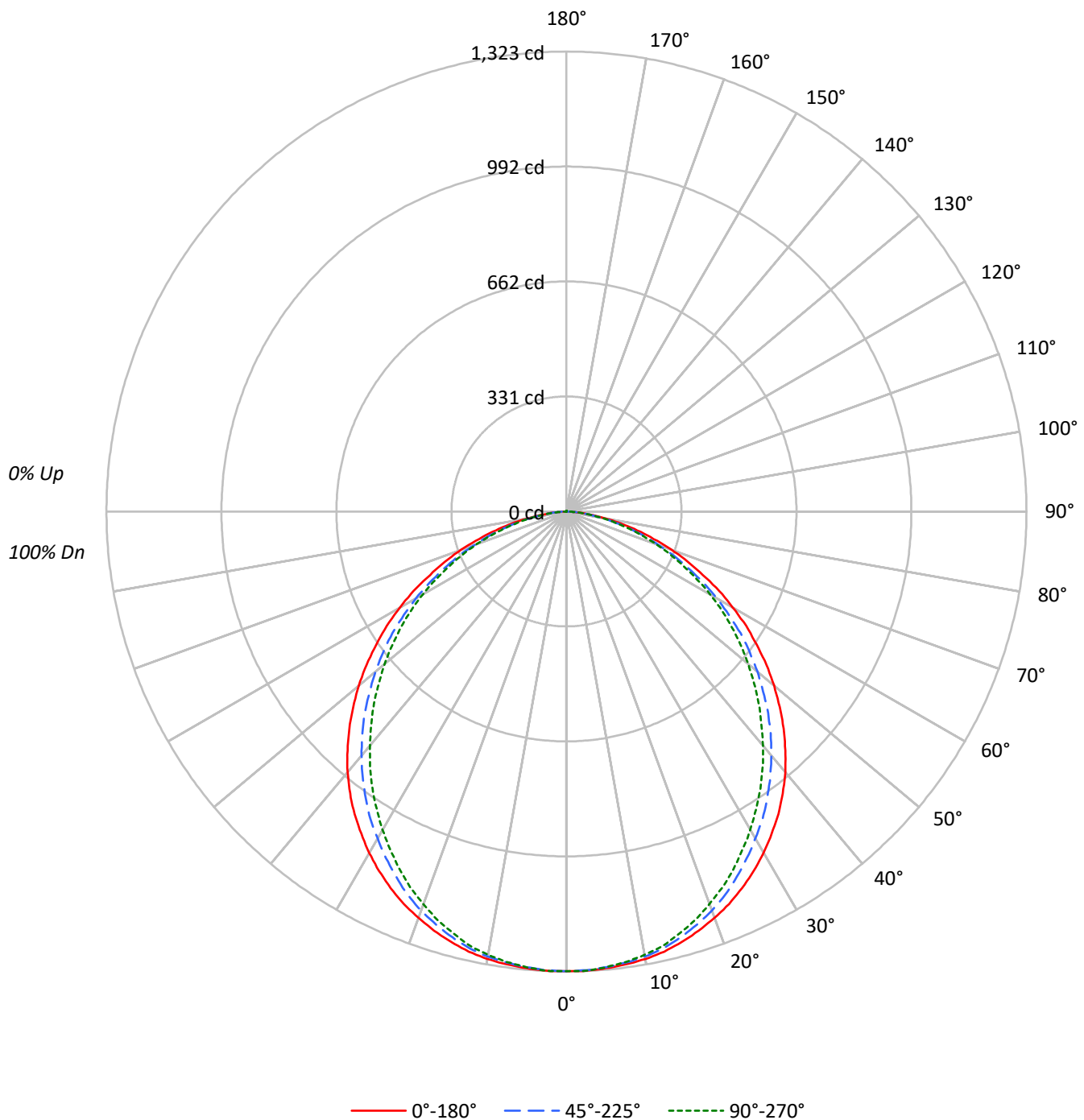
Lumens per Lamp: N/A
Luminaire Lumens: 3476.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.4
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

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Luminous Intensity Polar Plot



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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°	1780	1780	1780
5°	1782	1777	1777
10°	1786	1777	1770
15°	1786	1767	1750
20°	1782	1750	1721
25°	1775	1722	1686
30°	1762	1688	1643
35°	1746	1654	1598
40°	1721	1610	1545
45°	1680	1560	1489
50°	1631	1500	1429
55°	1565	1434	1362
60°	1485	1343	1284
65°	1378	1232	1184
70°	1262	1109	1075
75°	1094	953	927
80°	882	750	750
85°	446	472	446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.6
10°-20°	357.7	10.3
20°-30°	535.5	15.4
30°-40°	633.0	18.2
40°-50°	637.1	18.3
50°-60°	551.3	15.9
60°-70°	392.7	11.3
70°-80°	201.6	5.8
80°-90°	41.7	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°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1018.4	29.3
0°-40°	1651.4	47.5
0°-60°	2839.9	81.7
0°-90°	3475.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1319	1318	1316	1314	1316	126
15°	1282	1277	1268	1258	1256	362
25°	1195	1185	1160	1141	1136	551
35°	1063	1046	1007	981	973	664
45°	883	864	820	791	783	681
55°	667	649	611	586	581	597
65°	433	418	387	374	372	431
75°	210	200	183	177	178	225
85°	29	29	31	31	29	43
90°	0	0	0	0	0	2
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	2	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.6	1322.6	1322.6	1322.6	1322.6
2.5°	1322.6	1320.9	1320.9	1319.2	1322.6
5°	1319.2	1317.5	1315.8	1314.1	1315.8
7.5°	1314.1	1310.7	1309.0	1305.6	1307.3
10°	1307.3	1303.9	1300.5	1295.4	1295.4
12.5°	1297.1	1293.7	1286.9	1280.2	1280.2
15°	1281.9	1276.8	1268.3	1258.1	1256.4
17.5°	1264.9	1258.1	1246.2	1234.3	1232.6
20°	1244.5	1237.7	1222.4	1207.2	1202.1
22.5°	1222.4	1213.9	1193.6	1176.6	1171.5
25°	1195.3	1185.1	1159.6	1140.9	1135.8
27.5°	1166.4	1152.8	1124.0	1103.6	1096.8
30°	1134.1	1120.6	1086.6	1066.2	1057.7
32.5°	1098.5	1083.2	1049.3	1023.8	1015.3
35°	1062.8	1045.9	1006.8	981.3	972.9
37.5°	1022.1	1003.4	962.7	935.5	927.0
40°	979.6	961.0	916.8	889.7	879.5
42.5°	932.1	913.4	869.3	840.4	830.2
45°	882.9	864.2	820.0	791.2	782.7
47.5°	831.9	809.9	767.4	740.3	731.8
50°	779.3	757.2	716.5	689.3	682.5
52.5°	725.0	702.9	663.8	636.7	631.6
55°	667.2	648.6	611.2	585.7	580.7
57.5°	612.9	592.5	553.5	534.8	529.7
60°	551.8	534.8	499.2	482.2	477.1
62.5°	495.8	478.8	443.1	424.5	422.8
65°	432.9	417.7	387.1	373.5	371.8
67.5°	378.6	361.6	336.2	322.6	322.6
70°	320.9	305.6	281.8	273.3	273.3
72.5°	263.2	253.0	232.6	224.1	225.8
75°	210.5	200.3	183.4	176.6	178.3
77.5°	161.3	149.4	139.2	134.1	135.8
80°	113.8	105.3	96.8	95.1	96.8
82.5°	67.9	62.8	61.1	61.1	61.1
85°	28.9	28.9	30.6	30.6	28.9
87.5°	11.9	10.2	10.2	11.9	11.9
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

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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°	1.7	0.0	1.7	1.7	1.7
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.7	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	1.7
177.5°	0.0	0.0	1.7	1.7	1.7
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	13.73	15.33	14.10	15.65	15.96	12.96	14.57	13.33	14.88	15.19
	3H	15.36	16.80	15.73	17.13	17.49	14.52	15.96	14.89	16.29	16.65
	4H	15.91	17.26	16.31	17.61	17.99	15.04	16.39	15.44	16.74	17.12
	6H	16.26	17.52	16.67	17.88	18.27	15.37	16.63	15.78	16.99	17.38
	8H	16.34	17.54	16.76	17.92	18.32	15.45	16.65	15.87	17.04	17.44
	12H	16.36	17.51	16.79	17.89	18.32	15.48	16.63	15.91	17.01	17.44
4H	2H	14.19	15.55	14.59	15.90	16.28	13.57	14.93	13.97	15.28	15.65
	3H	16.03	17.16	16.44	17.56	17.96	15.32	16.45	15.73	16.85	17.25
	4H	16.70	17.72	17.13	18.13	18.57	15.94	16.96	16.37	17.38	17.81
	6H	17.15	18.04	17.61	18.48	18.94	16.37	17.26	16.83	17.70	18.16
	8H	17.26	18.09	17.72	18.53	19.00	16.48	17.31	16.94	17.76	18.22
	12H	17.30	18.05	17.78	18.53	19.00	16.54	17.28	17.02	17.76	18.23
8H	4H	16.88	17.71	17.34	18.16	18.62	16.20	17.03	16.66	17.48	17.94
	6H	17.42	18.11	17.91	18.60	19.07	16.71	17.40	17.21	17.89	18.36
	8H	17.56	18.18	18.08	18.69	19.18	16.87	17.48	17.38	17.99	18.48
	12H	17.64	18.19	18.15	18.68	19.24	16.96	17.50	17.47	17.99	18.56
12H	4H	16.89	17.63	17.37	18.11	18.58	16.22	16.96	16.70	17.44	17.91
	6H	17.43	18.04	17.94	18.55	19.04	16.74	17.36	17.25	17.86	18.35
	8H	17.61	18.16	18.12	18.65	19.21	16.93	17.48	17.44	17.97	18.53

END OF REPORT