

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: P572128

Luminaire Tested: 24ID-25-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572128
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-25-L835-DBR
Description: 2500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

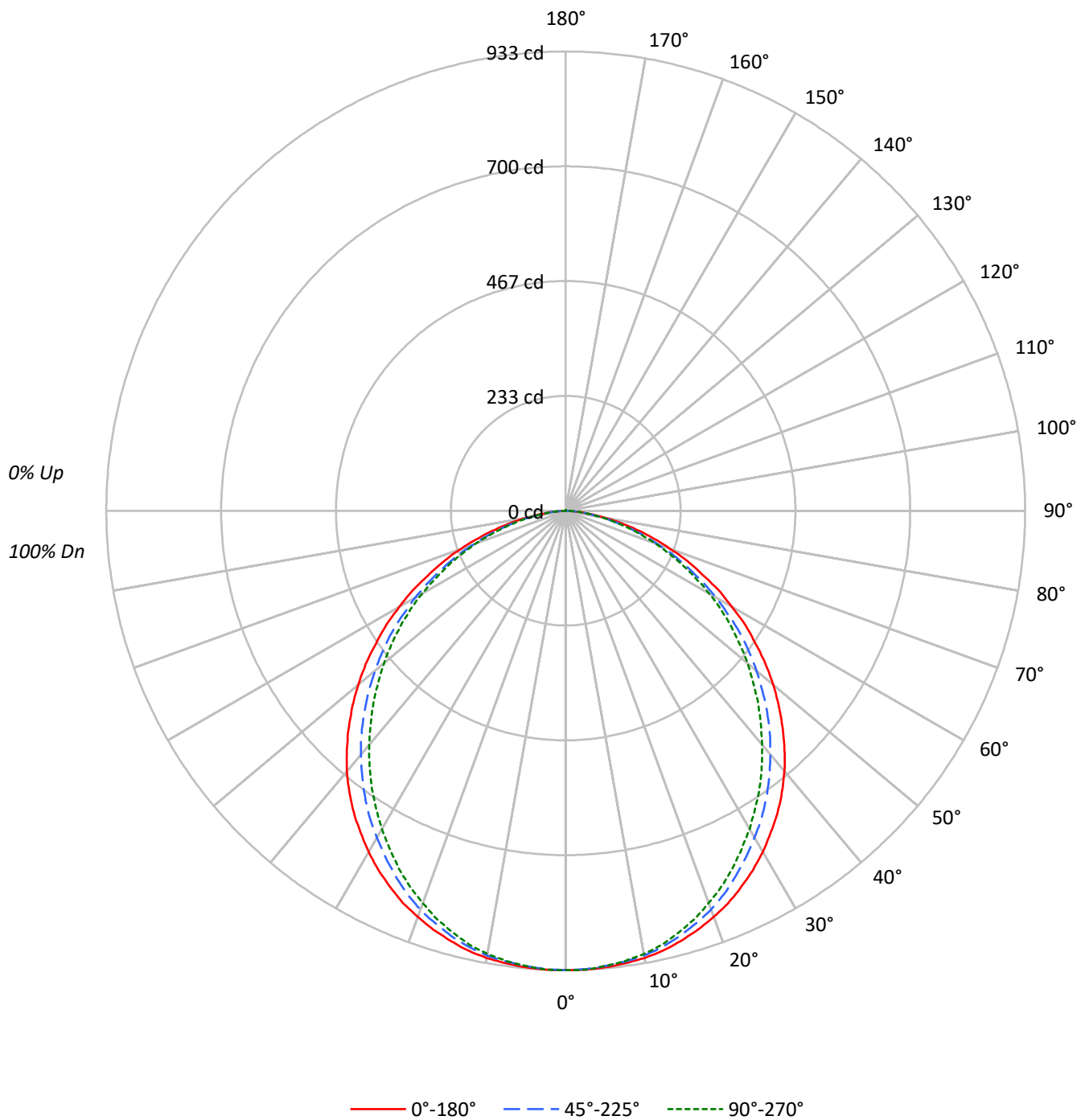
Lumens per Lamp: N/A
Luminaire Lumens: 2453.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.4
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°	1256	1256	1256
5°	1257	1254	1254
10°	1260	1254	1249
15°	1260	1247	1235
20°	1257	1235	1215
25°	1252	1215	1190
30°	1244	1191	1160
35°	1232	1167	1128
40°	1214	1136	1090
45°	1185	1101	1051
50°	1151	1058	1008
55°	1105	1012	961
60°	1048	948	906
65°	973	870	835
70°	891	782	759
75°	773	673	654
80°	622	529	529
85°	315	333	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1185 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.6
10°-20°	252.4	10.3
20°-30°	377.9	15.4
30°-40°	446.7	18.2
40°-50°	449.6	18.3
50°-60°	389.1	15.9
60°-70°	277.1	11.3
70°-80°	142.3	5.8
80°-90°	29.4	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°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	718.7	29.3
0°-40°	1165.4	47.5
0°-60°	2004.1	81.7
0°-90°	2452.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	931	930	929	927	929	89
15°	905	901	895	888	887	255
25°	844	836	818	805	802	389
35°	750	738	710	692	686	469
45°	623	610	579	558	552	480
55°	471	458	431	413	410	421
65°	306	295	273	264	262	304
75°	149	141	129	125	126	159
85°	20	20	22	22	20	31
90°	0	0	0	0	0	1
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	1	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.4	933.4	933.4	933.4	933.4
2.5°	933.4	932.2	932.2	931.0	933.4
5°	931.0	929.8	928.6	927.4	928.6
7.5°	927.4	925.0	923.8	921.4	922.6
10°	922.6	920.2	917.8	914.2	914.2
12.5°	915.4	913.0	908.2	903.4	903.4
15°	904.6	901.0	895.0	887.8	886.6
17.5°	892.6	887.8	879.4	871.1	869.9
20°	878.2	873.4	862.7	851.9	848.3
22.5°	862.7	856.7	842.3	830.3	826.7
25°	843.5	836.3	818.3	805.2	801.6
27.5°	823.1	813.5	793.2	778.8	774.0
30°	800.4	790.8	766.8	752.4	746.4
32.5°	775.2	764.4	740.5	722.5	716.5
35°	750.0	738.1	710.5	692.5	686.5
37.5°	721.3	708.1	679.3	660.2	654.2
40°	691.3	678.2	647.0	627.8	620.6
42.5°	657.8	644.6	613.5	593.1	585.9
45°	623.0	609.9	578.7	558.3	552.3
47.5°	587.1	571.5	541.6	522.4	516.4
50°	549.9	534.4	505.6	486.4	481.7
52.5°	511.6	496.0	468.5	449.3	445.7
55°	470.9	457.7	431.3	413.4	409.8
57.5°	432.5	418.2	390.6	377.4	373.8
60°	389.4	377.4	352.3	340.3	336.7
62.5°	349.9	337.9	312.7	299.5	298.3
65°	305.5	294.7	273.2	263.6	262.4
67.5°	267.2	255.2	237.2	227.6	227.6
70°	226.4	215.7	198.9	192.9	192.9
72.5°	185.7	178.5	164.1	158.2	159.4
75°	148.6	141.4	129.4	124.6	125.8
77.5°	113.8	105.4	98.2	94.7	95.9
80°	80.3	74.3	68.3	67.1	68.3
82.5°	47.9	44.3	43.1	43.1	43.1
85°	20.4	20.4	21.6	21.6	20.4
87.5°	8.4	7.2	7.2	8.4	8.4
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°	1.2	0.0	1.2	1.2	1.2
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.2	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	1.2
177.5°	0.0	0.0	1.2	1.2	1.2
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	12.52	14.12	12.89	14.44	14.75	11.75	13.35	12.12	13.67	13.98
	3H	14.14	15.59	14.52	15.92	16.28	13.30	14.75	13.68	15.08	15.44
	4H	14.70	16.05	15.10	16.40	16.78	13.83	15.18	14.22	15.53	15.91
	6H	15.05	16.30	15.46	16.67	17.06	14.16	15.41	14.57	15.78	16.17
	8H	15.13	16.32	15.55	16.71	17.11	14.24	15.44	14.66	15.83	16.23
	12H	15.15	16.30	15.58	16.68	17.11	14.27	15.42	14.70	15.80	16.23
4H	2H	12.98	14.34	13.38	14.69	15.07	12.36	13.72	12.76	14.07	14.44
	3H	14.82	15.95	15.23	16.35	16.75	14.11	15.24	14.52	15.64	16.04
	4H	15.48	16.51	15.92	16.92	17.36	14.73	15.75	15.16	16.17	16.60
	6H	15.94	16.83	16.40	17.27	17.73	15.16	16.05	15.62	16.49	16.95
	8H	16.05	16.88	16.51	17.32	17.79	15.27	16.10	15.73	16.54	17.01
	12H	16.09	16.84	16.57	17.31	17.78	15.32	16.07	15.81	16.55	17.02
8H	4H	15.67	16.50	16.13	16.95	17.41	14.99	15.82	15.45	16.26	16.73
	6H	16.21	16.90	16.70	17.38	17.86	15.50	16.19	16.00	16.68	17.15
	8H	16.35	16.97	16.86	17.48	17.96	15.66	16.27	16.17	16.78	17.27
	12H	16.43	16.97	16.94	17.47	18.03	15.75	16.29	16.26	16.78	17.35
12H	4H	15.68	16.42	16.16	16.90	17.37	15.01	15.75	15.49	16.23	16.70
	6H	16.22	16.83	16.73	17.34	17.83	15.53	16.14	16.04	16.65	17.14
	8H	16.40	16.95	16.91	17.44	18.00	15.72	16.27	16.23	16.76	17.32