

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: P572132

Luminaire Tested: 24ID-25-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572132
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-L850-DBR
Description: 2500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

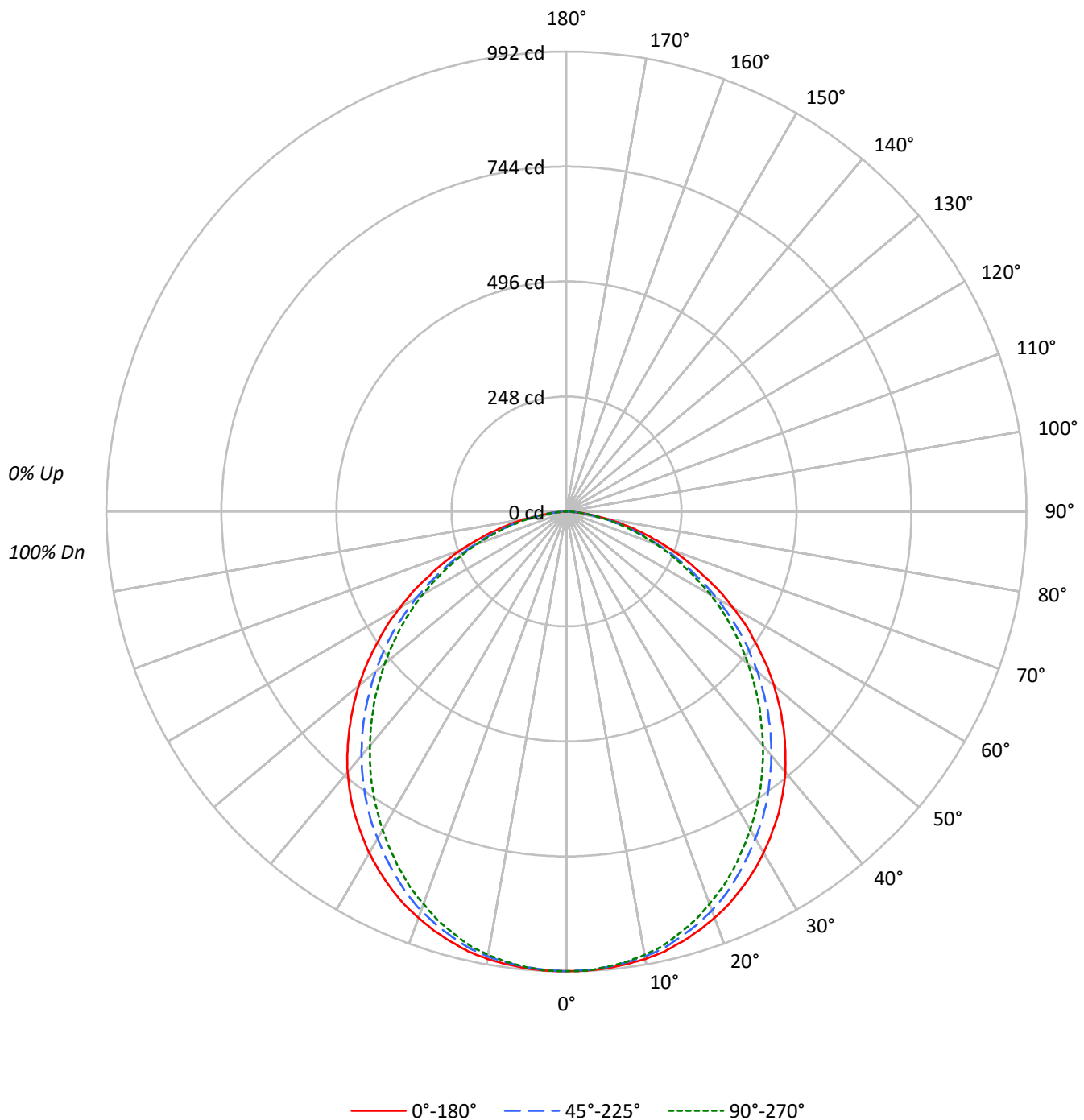
Lumens per Lamp: N/A
Luminaire Lumens: 2606.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1334	1334	1334
5°	1336	1332	1332
10°	1339	1332	1327
15°	1339	1324	1312
20°	1336	1312	1290
25°	1330	1291	1264
30°	1321	1266	1232
35°	1309	1240	1198
40°	1290	1207	1158
45°	1259	1170	1117
50°	1223	1124	1071
55°	1173	1075	1021
60°	1113	1007	963
65°	1033	924	888
70°	947	831	806
75°	820	715	695
80°	661	563	563
85°	333	354	333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.6
10°-20°	268.2	10.3
20°-30°	401.5	15.4
30°-40°	474.6	18.2
40°-50°	477.7	18.3
50°-60°	413.3	15.9
60°-70°	294.4	11.3
70°-80°	151.2	5.8
80°-90°	31.3	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°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	763.5	29.3
0°-40°	1238.1	47.5
0°-60°	2129.1	81.7
0°-90°	2605.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	989	988	986	985	986	94
15°	961	957	951	943	942	271
25°	896	888	869	855	852	413
35°	797	784	755	736	729	498
45°	662	648	615	593	587	510
55°	500	486	458	439	435	448
65°	325	313	290	280	279	323
75°	158	150	138	132	134	168
85°	22	22	23	23	22	33
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°	991.6	991.6	991.6	991.6	991.6
2.5°	991.6	990.3	990.3	989.0	991.6
5°	989.0	987.8	986.5	985.2	986.5
7.5°	985.2	982.7	981.4	978.8	980.1
10°	980.1	977.6	975.0	971.2	971.2
12.5°	972.5	969.9	964.8	959.8	959.8
15°	961.0	957.2	950.8	943.2	941.9
17.5°	948.3	943.2	934.3	925.4	924.1
20°	933.0	927.9	916.5	905.0	901.2
22.5°	916.5	910.1	894.8	882.1	878.3
25°	896.1	888.5	869.4	855.4	851.6
27.5°	874.5	864.3	842.6	827.4	822.3
30°	850.3	840.1	814.6	799.4	793.0
32.5°	823.6	812.1	786.6	767.5	761.2
35°	796.8	784.1	754.8	735.7	729.4
37.5°	766.3	752.3	721.7	701.4	695.0
40°	734.5	720.4	687.4	667.0	659.4
42.5°	698.8	684.8	651.7	630.1	622.4
45°	661.9	647.9	614.8	593.2	586.8
47.5°	623.7	607.2	575.3	555.0	548.6
50°	584.3	567.7	537.2	516.8	511.7
52.5°	543.5	527.0	497.7	477.3	473.5
55°	500.2	486.2	458.2	439.1	435.3
57.5°	459.5	444.2	415.0	401.0	397.1
60°	413.7	401.0	374.2	361.5	357.7
62.5°	371.7	359.0	332.2	318.2	316.9
65°	324.6	313.1	290.2	280.0	278.8
67.5°	283.9	271.1	252.0	241.8	241.8
70°	240.6	229.1	211.3	204.9	204.9
72.5°	197.3	189.7	174.4	168.0	169.3
75°	157.8	150.2	137.5	132.4	133.7
77.5°	120.9	112.0	104.4	100.6	101.8
80°	85.3	78.9	72.6	71.3	72.6
82.5°	50.9	47.1	45.8	45.8	45.8
85°	21.6	21.6	22.9	22.9	21.6
87.5°	8.9	7.6	7.6	8.9	8.9
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°	1.3	0.0	1.3	1.3	1.3
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.3	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	1.3
177.5°	0.0	0.0	1.3	1.3	1.3
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	12.73	14.33	13.10	14.65	14.96	11.96	13.57	12.33	13.88	14.19
	3H	14.35	15.80	14.73	16.13	16.49	13.52	14.96	13.89	15.29	15.65
	4H	14.91	16.26	15.30	16.61	16.99	14.04	15.39	14.44	15.74	16.12
	6H	15.26	16.51	15.67	16.88	17.27	14.37	15.62	14.78	15.99	16.38
	8H	15.34	16.53	15.76	16.92	17.32	14.45	15.65	14.87	16.04	16.44
	12H	15.36	16.51	15.79	16.89	17.32	14.48	15.63	14.91	16.01	16.44
4H	2H	13.19	14.55	13.59	14.90	15.27	12.57	13.93	12.97	14.28	14.65
	3H	15.03	16.16	15.44	16.56	16.96	14.32	15.45	14.73	15.85	16.25
	4H	15.69	16.72	16.13	17.13	17.57	14.94	15.96	15.37	16.38	16.81
	6H	16.15	17.04	16.61	17.48	17.94	15.37	16.26	15.83	16.70	17.16
	8H	16.26	17.09	16.72	17.53	18.00	15.48	16.31	15.94	16.75	17.22
	12H	16.30	17.05	16.78	17.52	17.99	15.53	16.28	16.02	16.76	17.23
8H	4H	15.88	16.71	16.34	17.16	17.62	15.20	16.03	15.66	16.47	16.94
	6H	16.42	17.11	16.91	17.59	18.07	15.71	16.40	16.21	16.89	17.36
	8H	16.56	17.18	17.07	17.69	18.17	15.87	16.48	16.38	16.99	17.48
	12H	16.64	17.18	17.15	17.68	18.24	15.96	16.50	16.47	16.99	17.56
12H	4H	15.89	16.63	16.37	17.11	17.58	15.22	15.96	15.70	16.44	16.91
	6H	16.43	17.04	16.94	17.55	18.04	15.74	16.35	16.25	16.86	17.35
	8H	16.61	17.16	17.12	17.65	18.21	15.93	16.48	16.44	16.97	17.53

END OF REPORT