

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: P572126

Luminaire Tested: 24ID-25-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572126
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-L830-DBR
Description: 2500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

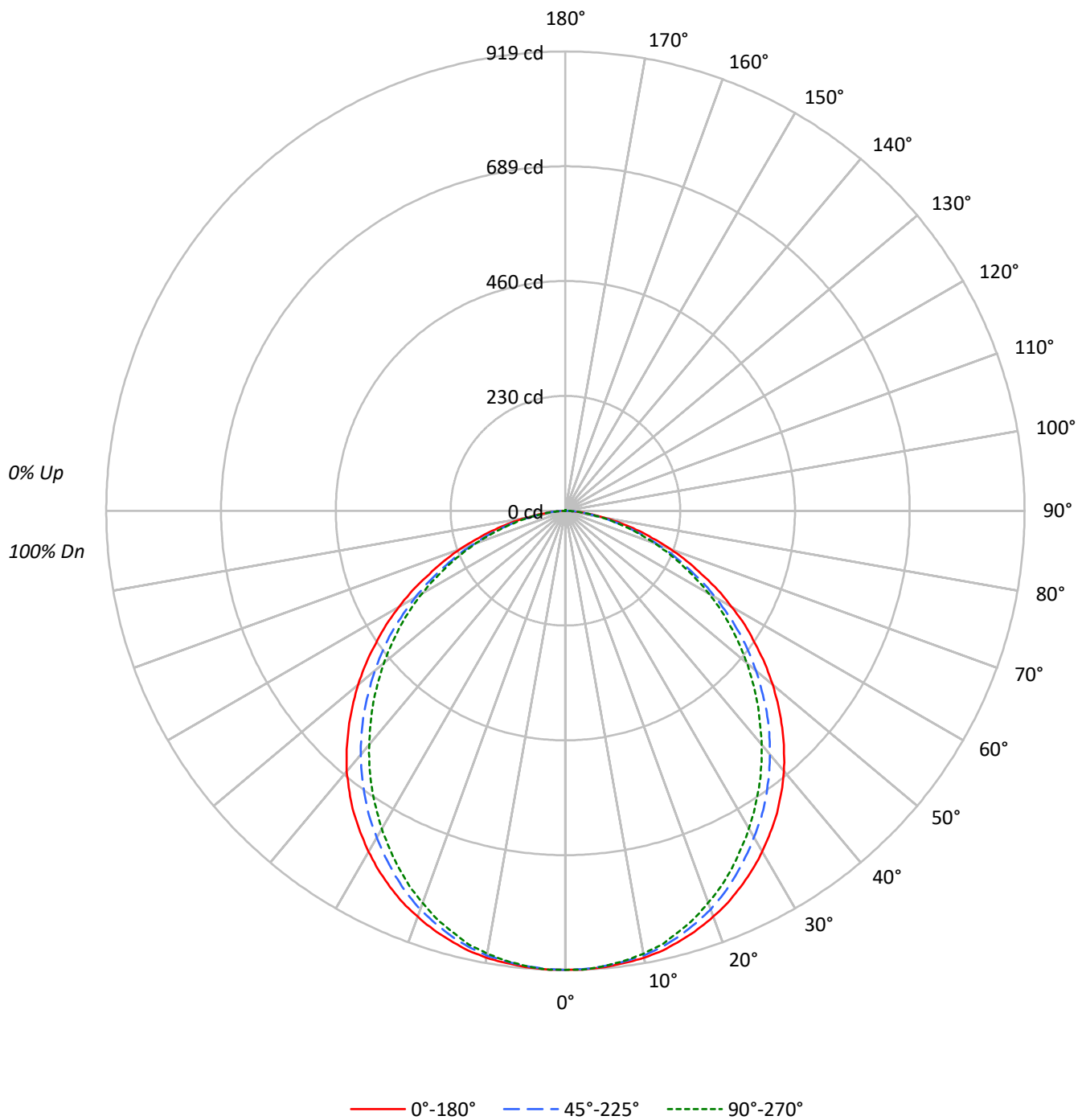
Lumens per Lamp: N/A
Luminaire Lumens: 2415.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1236	1236	1236
5°	1238	1235	1235
10°	1241	1235	1230
15°	1241	1227	1216
20°	1238	1216	1196
25°	1233	1196	1171
30°	1224	1173	1142
35°	1213	1149	1110
40°	1195	1119	1073
45°	1167	1084	1035
50°	1133	1042	993
55°	1088	996	946
60°	1032	933	892
65°	958	856	822
70°	877	770	747
75°	761	662	644
80°	612	521	521
85°	310	327	310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.6
10°-20°	248.5	10.3
20°-30°	372.1	15.4
30°-40°	439.8	18.2
40°-50°	442.7	18.3
50°-60°	383.1	15.9
60°-70°	272.8	11.3
70°-80°	140.1	5.8
80°-90°	29.0	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°	707.5	29.3
0°-40°	1147.3	47.5
0°-60°	1973.0	81.7
0°-90°	2414.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	916	915	914	913	914	87
15°	891	887	881	874	873	251
25°	830	823	806	793	789	383
35°	738	727	700	682	676	461
45°	613	600	570	550	544	473
55°	464	451	425	407	403	415
65°	301	290	269	260	258	300
75°	146	139	127	123	124	156
85°	20	20	21	21	20	30
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°	918.9	918.9	918.9	918.9	918.9
2.5°	918.9	917.7	917.7	916.5	918.9
5°	916.5	915.4	914.2	913.0	914.2
7.5°	913.0	910.6	909.5	907.1	908.3
10°	908.3	905.9	903.6	900.0	900.0
12.5°	901.2	898.8	894.1	889.4	889.4
15°	890.6	887.0	881.2	874.1	872.9
17.5°	878.8	874.1	865.8	857.6	856.4
20°	864.6	859.9	849.3	838.7	835.1
22.5°	849.3	843.4	829.2	817.5	813.9
25°	830.4	823.4	805.7	792.7	789.1
27.5°	810.4	800.9	780.9	766.7	762.0
30°	788.0	778.5	754.9	740.8	734.9
32.5°	763.2	752.6	729.0	711.3	705.4
35°	738.4	726.6	699.5	681.8	675.9
37.5°	710.1	697.1	668.8	650.0	644.1
40°	680.6	667.6	637.0	618.1	611.0
42.5°	647.6	634.6	603.9	583.9	576.8
45°	613.4	600.4	569.7	549.7	543.8
47.5°	578.0	562.7	533.2	514.3	508.4
50°	541.4	526.1	497.8	478.9	474.2
52.5°	503.7	488.3	461.2	442.3	438.8
55°	463.6	450.6	424.7	407.0	403.4
57.5°	425.8	411.7	384.5	371.6	368.0
60°	383.4	371.6	346.8	335.0	331.5
62.5°	344.4	332.6	307.9	294.9	293.7
65°	300.8	290.2	268.9	259.5	258.3
67.5°	263.0	251.3	233.6	224.1	224.1
70°	222.9	212.3	195.8	189.9	189.9
72.5°	182.8	175.8	161.6	155.7	156.9
75°	146.3	139.2	127.4	122.7	123.9
77.5°	112.1	103.8	96.7	93.2	94.4
80°	79.0	73.1	67.2	66.1	67.2
82.5°	47.2	43.6	42.5	42.5	42.5
85°	20.1	20.1	21.2	21.2	20.1
87.5°	8.3	7.1	7.1	8.3	8.3
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	12.47	14.07	12.83	14.38	14.70	11.70	13.30	12.06	13.61	13.93
	3H	14.09	15.53	14.47	15.86	16.22	13.25	14.69	13.63	15.02	15.38
	4H	14.64	16.00	15.04	16.35	16.72	13.77	15.13	14.17	15.48	15.85
	6H	14.99	16.25	15.41	16.62	17.01	14.10	15.36	14.52	15.73	16.12
	8H	15.07	16.27	15.50	16.66	17.06	14.19	15.38	14.61	15.77	16.17
	12H	15.09	16.24	15.52	16.62	17.05	14.22	15.36	14.65	15.74	16.17
4H	2H	12.93	14.29	13.33	14.63	15.01	12.31	13.66	12.70	14.01	14.39
	3H	14.76	15.89	15.17	16.29	16.69	14.06	15.19	14.47	15.59	15.99
	4H	15.43	16.45	15.86	16.87	17.30	14.68	15.70	15.11	16.11	16.55
	6H	15.89	16.78	16.34	17.22	17.68	15.11	16.00	15.56	16.44	16.89
	8H	16.00	16.83	16.46	17.27	17.74	15.22	16.05	15.68	16.49	16.96
	12H	16.04	16.78	16.52	17.26	17.73	15.27	16.02	15.75	16.49	16.96
8H	4H	15.62	16.45	16.08	16.89	17.36	14.94	15.77	15.40	16.21	16.68
	6H	16.15	16.84	16.65	17.33	17.81	15.45	16.13	15.94	16.62	17.10
	8H	16.30	16.92	16.81	17.42	17.91	15.60	16.22	16.11	16.73	17.21
	12H	16.38	16.92	16.88	17.41	17.97	15.69	16.24	16.20	16.73	17.29
12H	4H	15.62	16.37	16.10	16.84	17.31	14.95	15.70	15.43	16.18	16.65
	6H	16.16	16.78	16.67	17.29	17.77	15.47	16.09	15.98	16.60	17.08
	8H	16.35	16.89	16.86	17.38	17.95	15.67	16.21	16.18	16.71	17.27