

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P383977

Luminaire Tested: **22ID-60-L850-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-60-L850-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

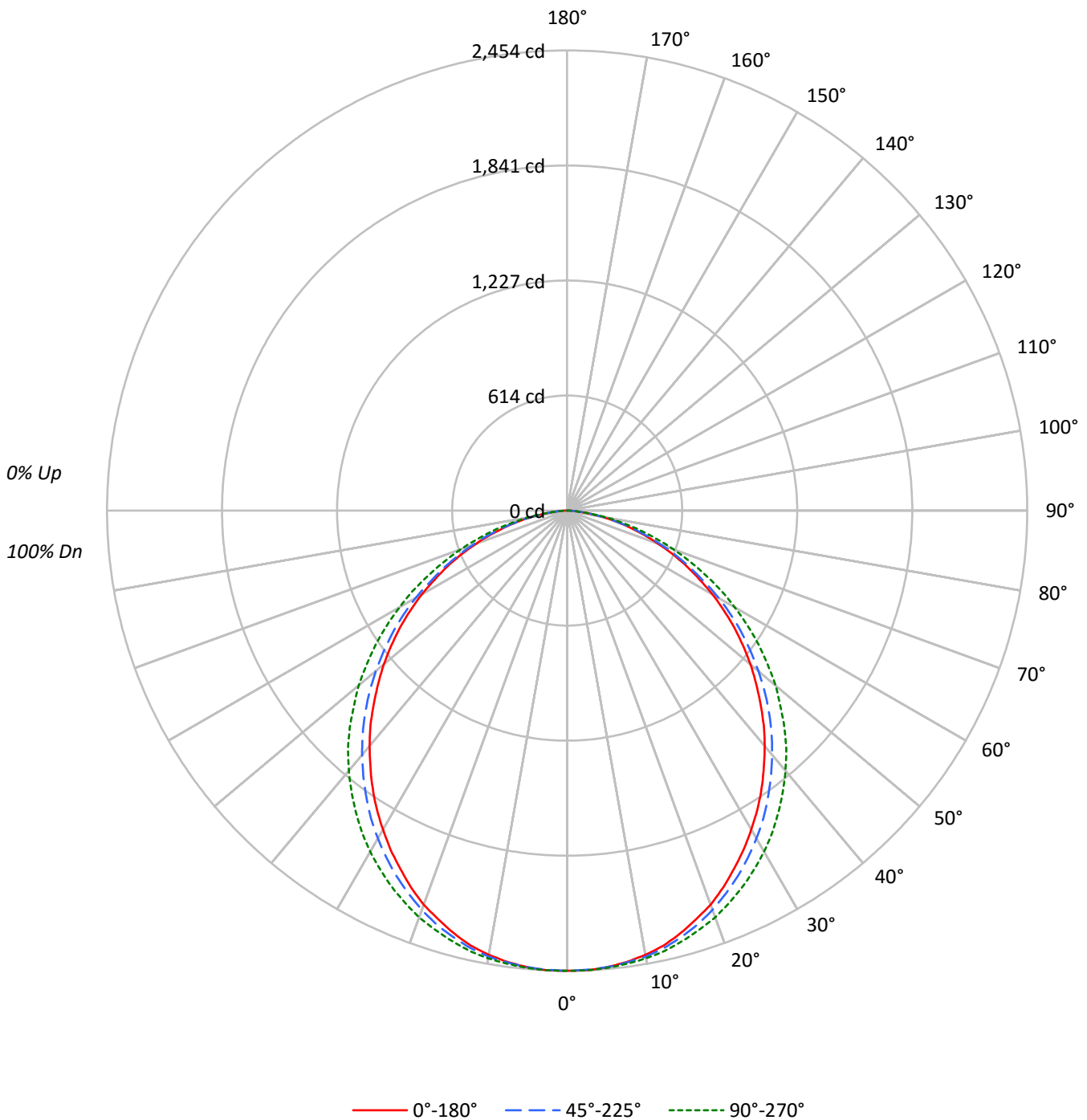
Lumens per Lamp: N/A  
Luminaire Lumens: 6478.5 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 51.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6604	6604	6604
5°	6603	6603	6612
10°	6573	6600	6626
15°	6502	6557	6620
20°	6405	6489	6610
25°	6255	6390	6573
30°	6103	6274	6526
35°	5940	6132	6452
40°	5759	5975	6363
45°	5547	5794	6239
50°	5341	5572	6075
55°	5102	5331	5848
60°	4822	5032	5556
65°	4485	4630	5188
70°	4061	4214	4751
75°	3544	3679	4152
80°	2867	2918	3270
85°	1704	1905	1602



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.3	3.6
10°-20°	664.0	10.2
20°-30°	993.3	15.3
30°-40°	1173.5	18.1
40°-50°	1184.2	18.3
50°-60°	1028.4	15.9
60°-70°	737.4	11.4
70°-80°	384.2	5.9
80°-90°	81.1	1.3
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°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1889.7	29.2
0°-40°	3063.2	47.3
0°-60°	5275.8	81.4
0°-90°	6478.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6478.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2444	2441	2444	2444	2448	232
15°	2334	2337	2354	2370	2376	658
25°	2107	2120	2152	2194	2214	971
35°	1808	1821	1867	1935	1964	1130
45°	1458	1474	1522	1600	1639	1126
55°	1088	1097	1136	1211	1246	971
65°	704	701	727	782	815	696
75°	341	338	354	380	399	364
85°	55	62	62	55	52	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2454.1	2454.1	2454.1	2454.1	2454.1
2.5°	2454.1	2450.9	2450.9	2450.9	2454.1
5°	2444.4	2441.2	2444.4	2444.4	2447.6
7.5°	2428.2	2424.9	2431.4	2434.7	2437.9
10°	2405.4	2405.4	2415.2	2421.7	2424.9
12.5°	2376.2	2376.2	2389.2	2399.0	2405.4
15°	2334.0	2337.3	2353.5	2369.7	2376.2
17.5°	2285.3	2295.1	2314.6	2337.3	2343.8
20°	2236.6	2243.1	2265.9	2295.1	2308.1
22.5°	2175.0	2184.7	2210.7	2249.6	2262.6
25°	2106.8	2119.8	2152.2	2194.4	2213.9
27.5°	2038.6	2048.4	2087.3	2136.0	2158.7
30°	1964.0	1976.9	2019.1	2074.3	2100.3
32.5°	1889.3	1899.0	1947.7	2006.2	2035.4
35°	1808.1	1821.1	1866.6	1934.7	1964.0
37.5°	1723.7	1740.0	1785.4	1856.8	1889.3
40°	1639.3	1649.1	1701.0	1772.4	1811.4
42.5°	1551.7	1564.7	1613.4	1691.3	1730.2
45°	1457.6	1473.8	1522.5	1600.4	1639.3
47.5°	1366.7	1382.9	1428.3	1506.2	1542.0
50°	1275.8	1285.5	1330.9	1408.9	1451.1
52.5°	1181.6	1191.4	1233.6	1308.2	1347.2
55°	1087.5	1097.2	1136.2	1210.8	1246.5
57.5°	990.1	996.6	1035.5	1103.7	1139.4
60°	896.0	899.2	934.9	996.6	1032.3
62.5°	795.3	798.6	824.5	896.0	928.4
65°	704.4	701.2	727.2	782.3	814.8
67.5°	610.3	610.3	633.0	681.7	707.7
70°	516.1	516.1	535.6	577.8	603.8
72.5°	428.5	428.5	444.7	477.2	496.7
75°	340.9	337.6	353.8	379.8	399.3
77.5°	259.7	259.7	266.2	288.9	301.9
80°	185.0	185.0	188.3	201.3	211.0
82.5°	116.9	116.9	116.9	123.4	126.6
85°	55.2	61.7	61.7	55.2	51.9
87.5°	26.0	26.0	22.7	22.7	22.7
90°	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	17.53	19.14	17.90	19.45	19.77	18.29	19.90	18.66	20.21	20.53
	3H	19.12	20.57	19.50	20.90	21.26	19.94	21.39	20.32	21.72	22.08
	4H	19.66	21.03	20.06	21.37	21.75	20.51	21.87	20.91	22.22	22.59
	6H	20.01	21.27	20.42	21.64	22.03	20.87	22.13	21.28	22.49	22.88
	8H	20.10	21.30	20.52	21.69	22.09	20.94	22.15	21.37	22.53	22.93
	12H	20.13	21.28	20.56	21.66	22.09	20.97	22.12	21.39	22.50	22.93
4H	2H	18.15	19.51	18.55	19.86	20.24	18.76	20.13	19.16	20.47	20.85
	3H	19.94	21.08	20.35	21.47	21.88	20.63	21.77	21.04	22.16	22.56
	4H	20.58	21.61	21.02	22.02	22.46	21.31	22.34	21.75	22.75	23.19
	6H	21.03	21.93	21.49	22.37	22.82	21.78	22.67	22.23	23.11	23.57
	8H	21.15	21.98	21.61	22.43	22.89	21.89	22.72	22.35	23.17	23.63
	12H	21.21	21.95	21.69	22.43	22.90	21.93	22.68	22.41	23.16	23.63
8H	4H	20.86	21.69	21.32	22.13	22.60	21.51	22.35	21.97	22.79	23.26
	6H	21.39	22.08	21.88	22.57	23.05	22.06	22.75	22.55	23.24	23.72
	8H	21.55	22.17	22.06	22.68	23.16	22.21	22.83	22.72	23.34	23.83
	12H	21.65	22.20	22.16	22.69	23.25	22.29	22.84	22.80	23.33	23.89
12H	4H	20.88	21.62	21.36	22.10	22.57	21.52	22.27	22.00	22.75	23.22
	6H	21.42	22.04	21.93	22.55	23.03	22.07	22.69	22.58	23.20	23.69
	8H	21.62	22.17	22.13	22.66	23.22	22.26	22.81	22.77	23.30	23.86