

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: P383829

Luminaire Tested: **22ID-85-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-85-L850-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

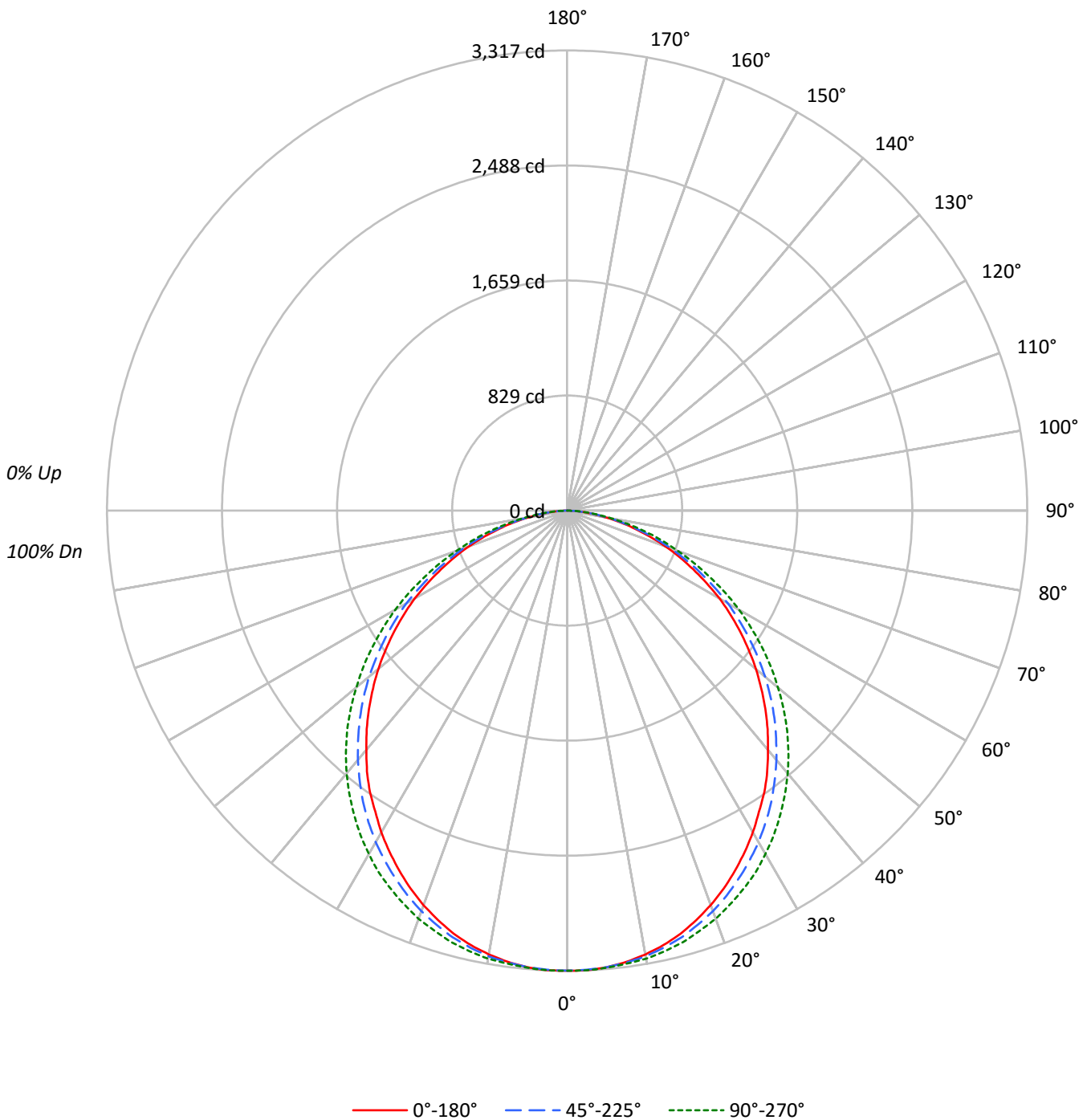
Lumens per Lamp: N/A  
Luminaire Lumens: 9007.8 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 78.1  
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	8925	8925	8925
5°	8923	8923	8935
10°	8877	8914	8964
15°	8798	8874	8975
20°	8668	8798	8966
25°	8503	8691	8933
30°	8321	8574	8884
35°	8142	8425	8797
40°	7911	8245	8691
45°	7691	8036	8536
50°	7436	7796	8308
55°	7142	7504	8035
60°	6828	7194	7706
65°	6376	6751	7213
70°	5918	6238	6666
75°	5277	5559	6030
80°	4424	4635	5055
85°	3356	3356	3776



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.9	3.5
10°-20°	898.2	10.0
20°-30°	1350.6	15.0
30°-40°	1606.6	17.8
40°-50°	1634.8	18.1
50°-60°	1438.7	16.0
60°-70°	1055.4	11.7
70°-80°	572.8	6.4
80°-90°	136.7	1.5
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°	2562.7	28.4
0°-40°	4169.4	46.3
0°-60°	7242.9	80.4
0°-90°	9007.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9007.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3317	3317	3317	3317	3317	
5°	3303	3299	3303	3303	3308	314
15°	3158	3163	3185	3204	3222	890
25°	2864	2882	2927	2977	3009	1319
35°	2478	2497	2565	2642	2678	1548
45°	2021	2039	2112	2202	2243	1558
55°	1522	1545	1600	1676	1713	1362
65°	1001	1020	1060	1106	1133	995
75°	508	516	535	562	580	539
85°	109	109	109	118	122	131
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3316.7	3316.7	3316.7	3316.7	3316.7
2.5°	3316.7	3312.2	3312.2	3312.2	3316.7
5°	3303.2	3298.6	3303.2	3303.2	3307.7
7.5°	3280.5	3276.0	3285.0	3289.6	3294.1
10°	3248.8	3248.8	3262.4	3271.4	3280.5
12.5°	3208.0	3212.5	3226.1	3239.7	3253.3
15°	3158.2	3162.7	3185.3	3203.5	3221.6
17.5°	3094.7	3103.8	3131.0	3158.2	3176.3
20°	3026.8	3040.4	3072.1	3108.3	3131.0
22.5°	2949.7	2967.9	3004.1	3049.4	3072.1
25°	2863.6	2881.8	2927.1	2976.9	3008.6
27.5°	2773.0	2795.7	2845.5	2904.4	2940.7
30°	2677.9	2700.5	2759.4	2822.9	2859.1
32.5°	2573.7	2600.8	2664.3	2736.8	2773.0
35°	2478.5	2496.6	2564.6	2641.6	2677.9
37.5°	2369.8	2392.4	2455.8	2537.4	2578.2
40°	2251.9	2274.6	2347.1	2428.7	2474.0
42.5°	2138.7	2156.8	2229.3	2319.9	2360.7
45°	2020.9	2039.0	2111.5	2202.1	2242.9
47.5°	1898.5	1921.2	1989.1	2075.2	2116.0
50°	1776.2	1794.3	1862.3	1943.8	1984.6
52.5°	1649.3	1667.4	1730.9	1812.4	1853.2
55°	1522.4	1545.1	1599.5	1676.5	1712.7
57.5°	1395.6	1418.2	1468.1	1540.6	1572.3
60°	1268.7	1286.8	1336.7	1400.1	1431.8
62.5°	1132.8	1146.4	1196.2	1259.6	1286.8
65°	1001.4	1019.5	1060.3	1105.6	1132.8
67.5°	879.0	888.1	924.3	974.2	992.3
70°	752.2	761.2	792.9	833.7	847.3
72.5°	625.3	638.9	661.5	697.8	715.9
75°	507.5	516.5	534.7	561.9	580.0
77.5°	394.2	398.7	412.3	435.0	448.6
80°	285.5	290.0	299.1	317.2	326.2
82.5°	190.3	194.8	199.4	208.4	217.5
85°	108.7	108.7	108.7	117.8	122.3
87.5°	40.8	36.2	36.2	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)