

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: P383777

Luminaire Tested: **22ID-20-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383777  
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-20-L850-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

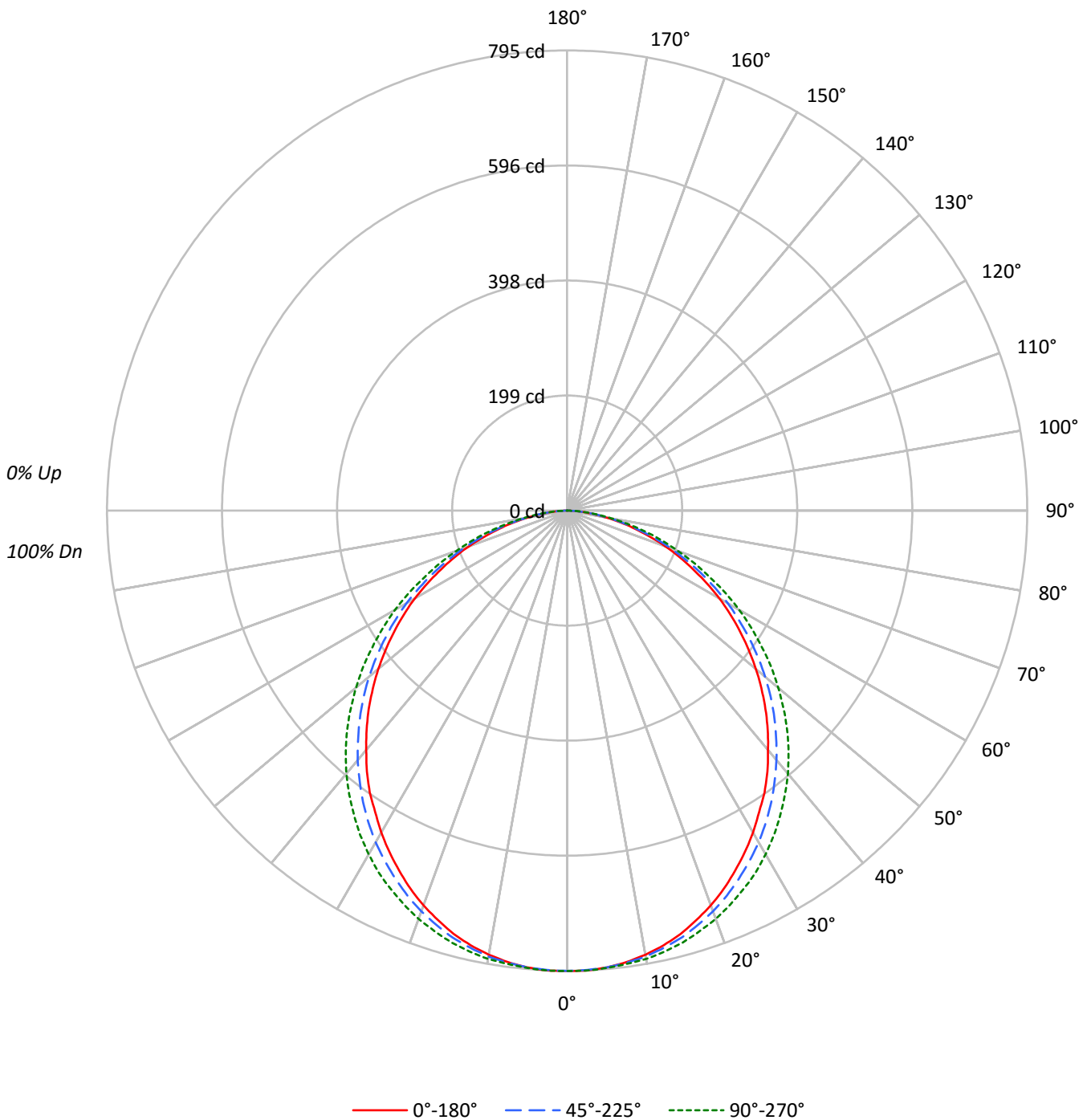
Lumens per Lamp: N/A  
Luminaire Lumens: 2160.1 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.3  
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°	2140	2140	2140
5°	2140	2140	2143
10°	2129	2138	2150
15°	2110	2128	2152
20°	2078	2110	2150
25°	2039	2084	2142
30°	1995	2056	2130
35°	1953	2020	2110
40°	1897	1977	2084
45°	1844	1927	2047
50°	1783	1870	1992
55°	1713	1800	1927
60°	1637	1725	1848
65°	1529	1619	1729
70°	1419	1496	1599
75°	1265	1333	1446
80°	1062	1111	1212
85°	806	806	905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	3.5
10°-20°	215.4	10.0
20°-30°	323.9	15.0
30°-40°	385.3	17.8
40°-50°	392.0	18.1
50°-60°	345.0	16.0
60°-70°	253.1	11.7
70°-80°	137.4	6.4
80°-90°	32.8	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°	614.5	28.4
0°-40°	999.8	46.3
0°-60°	1736.9	80.4
0°-90°	2160.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	792	791	792	792	793	75
15°	757	758	764	768	772	213
25°	687	691	702	714	722	316
35°	594	599	615	634	642	371
45°	485	489	506	528	538	374
55°	365	370	384	402	411	326
65°	240	244	254	265	272	239
75°	122	124	128	135	139	129
85°	26	26	26	28	29	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	795.4	795.4	795.4	795.4	795.4
2.5°	795.4	794.3	794.3	794.3	795.4
5°	792.1	791.0	792.1	792.1	793.2
7.5°	786.7	785.6	787.8	788.8	789.9
10°	779.1	779.1	782.3	784.5	786.7
12.5°	769.3	770.4	773.6	776.9	780.2
15°	757.3	758.4	763.9	768.2	772.5
17.5°	742.1	744.3	750.8	757.3	761.7
20°	725.8	729.1	736.7	745.4	750.8
22.5°	707.4	711.7	720.4	731.3	736.7
25°	686.7	691.1	701.9	713.9	721.5
27.5°	665.0	670.4	682.4	696.5	705.2
30°	642.2	647.6	661.7	676.9	685.6
32.5°	617.2	623.7	638.9	656.3	665.0
35°	594.4	598.7	615.0	633.5	642.2
37.5°	568.3	573.7	588.9	608.5	618.3
40°	540.0	545.5	562.8	582.4	593.3
42.5°	512.9	517.2	534.6	556.3	566.1
45°	484.6	489.0	506.3	528.1	537.9
47.5°	455.3	460.7	477.0	497.6	507.4
50°	425.9	430.3	446.6	466.1	475.9
52.5°	395.5	399.9	415.1	434.6	444.4
55°	365.1	370.5	383.6	402.0	410.7
57.5°	334.7	340.1	352.0	369.4	377.0
60°	304.2	308.6	320.5	335.7	343.4
62.5°	271.6	274.9	286.9	302.1	308.6
65°	240.1	244.5	254.3	265.1	271.6
67.5°	210.8	213.0	221.7	233.6	238.0
70°	180.4	182.5	190.1	199.9	203.2
72.5°	149.9	153.2	158.6	167.3	171.7
75°	121.7	123.9	128.2	134.7	139.1
77.5°	94.5	95.6	98.9	104.3	107.6
80°	68.5	69.5	71.7	76.1	78.2
82.5°	45.6	46.7	47.8	50.0	52.2
85°	26.1	26.1	26.1	28.3	29.3
87.5°	9.8	8.7	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)