

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: P383828

Luminaire Tested: **22ID-85-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383828  
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-L840-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

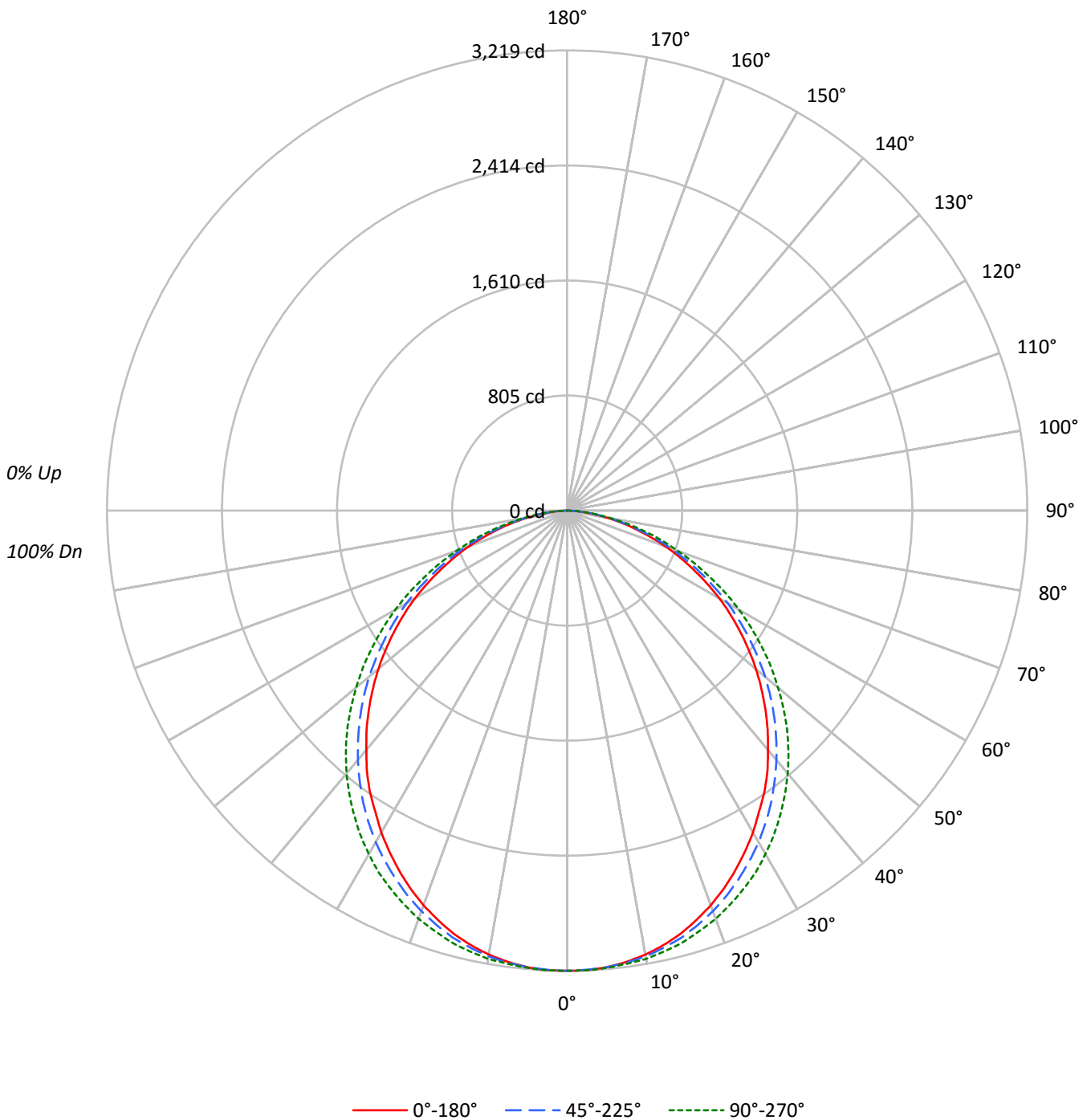
Lumens per Lamp: N/A  
Luminaire Lumens: 8742.8 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	8663	8663	8663
5°	8660	8660	8672
10°	8616	8652	8700
15°	8539	8613	8711
20°	8413	8539	8702
25°	8253	8435	8670
30°	8076	8322	8623
35°	7903	8177	8538
40°	7678	8002	8435
45°	7464	7799	8284
50°	7217	7567	8064
55°	6933	7283	7799
60°	6627	6982	7479
65°	6188	6553	7000
70°	5744	6055	6471
75°	5122	5395	5853
80°	4294	4499	4906
85°	3257	3257	3665



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.7	3.5
10°-20°	871.8	10.0
20°-30°	1310.8	15.0
30°-40°	1559.4	17.8
40°-50°	1586.7	18.1
50°-60°	1396.4	16.0
60°-70°	1024.3	11.7
70°-80°	556.0	6.4
80°-90°	132.7	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°	2487.3	28.4
0°-40°	4046.7	46.3
0°-60°	7029.8	80.4
0°-90°	8742.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8742.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3219	3219	3219	3219	3219	
5°	3206	3202	3206	3206	3210	304
15°	3065	3070	3092	3109	3127	863
25°	2779	2797	2841	2889	2920	1280
35°	2406	2423	2489	2564	2599	1502
45°	1961	1979	2049	2137	2177	1512
55°	1478	1500	1552	1627	1662	1321
65°	972	990	1029	1073	1099	966
75°	493	501	519	545	563	523
85°	106	106	106	114	119	127
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3219.2	3219.2	3219.2	3219.2	3219.2
2.5°	3219.2	3214.8	3214.8	3214.8	3219.2
5°	3206.0	3201.6	3206.0	3206.0	3210.4
7.5°	3184.0	3179.6	3188.4	3192.8	3197.2
10°	3153.2	3153.2	3166.4	3175.2	3184.0
12.5°	3113.6	3118.0	3131.2	3144.4	3157.6
15°	3065.2	3069.6	3091.6	3109.2	3126.8
17.5°	3003.7	3012.5	3038.9	3065.2	3082.8
20°	2937.7	2950.9	2981.7	3016.9	3038.9
22.5°	2863.0	2880.5	2915.7	2959.7	2981.7
25°	2779.4	2797.0	2841.0	2889.3	2920.1
27.5°	2691.4	2713.4	2761.8	2819.0	2854.2
30°	2599.1	2621.1	2678.2	2739.8	2775.0
32.5°	2497.9	2524.3	2585.9	2656.3	2691.4
35°	2405.6	2423.2	2489.1	2563.9	2599.1
37.5°	2300.0	2322.0	2383.6	2462.8	2502.3
40°	2185.7	2207.7	2278.0	2357.2	2401.2
42.5°	2075.7	2093.3	2163.7	2251.7	2291.2
45°	1961.4	1979.0	2049.4	2137.3	2176.9
47.5°	1842.7	1864.7	1930.6	2014.2	2053.8
50°	1723.9	1741.5	1807.5	1886.6	1926.2
52.5°	1600.8	1618.4	1680.0	1759.1	1798.7
55°	1477.7	1499.6	1552.4	1627.2	1662.4
57.5°	1354.5	1376.5	1424.9	1495.2	1526.0
60°	1231.4	1249.0	1297.3	1358.9	1389.7
62.5°	1099.4	1112.6	1161.0	1222.6	1249.0
65°	971.9	989.5	1029.1	1073.1	1099.4
67.5°	853.2	862.0	897.1	945.5	963.1
70°	730.0	738.8	769.6	809.2	822.4
72.5°	606.9	620.1	642.1	677.3	694.8
75°	492.6	501.3	518.9	545.3	562.9
77.5°	382.6	387.0	400.2	422.2	435.4
80°	277.1	281.5	290.3	307.8	316.6
82.5°	184.7	189.1	193.5	202.3	211.1
85°	105.5	105.5	105.5	114.3	118.7
87.5°	39.6	35.2	35.2	35.2	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)