

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: P383792

Luminaire Tested: **22ID-40-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383792  
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-40-L840-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

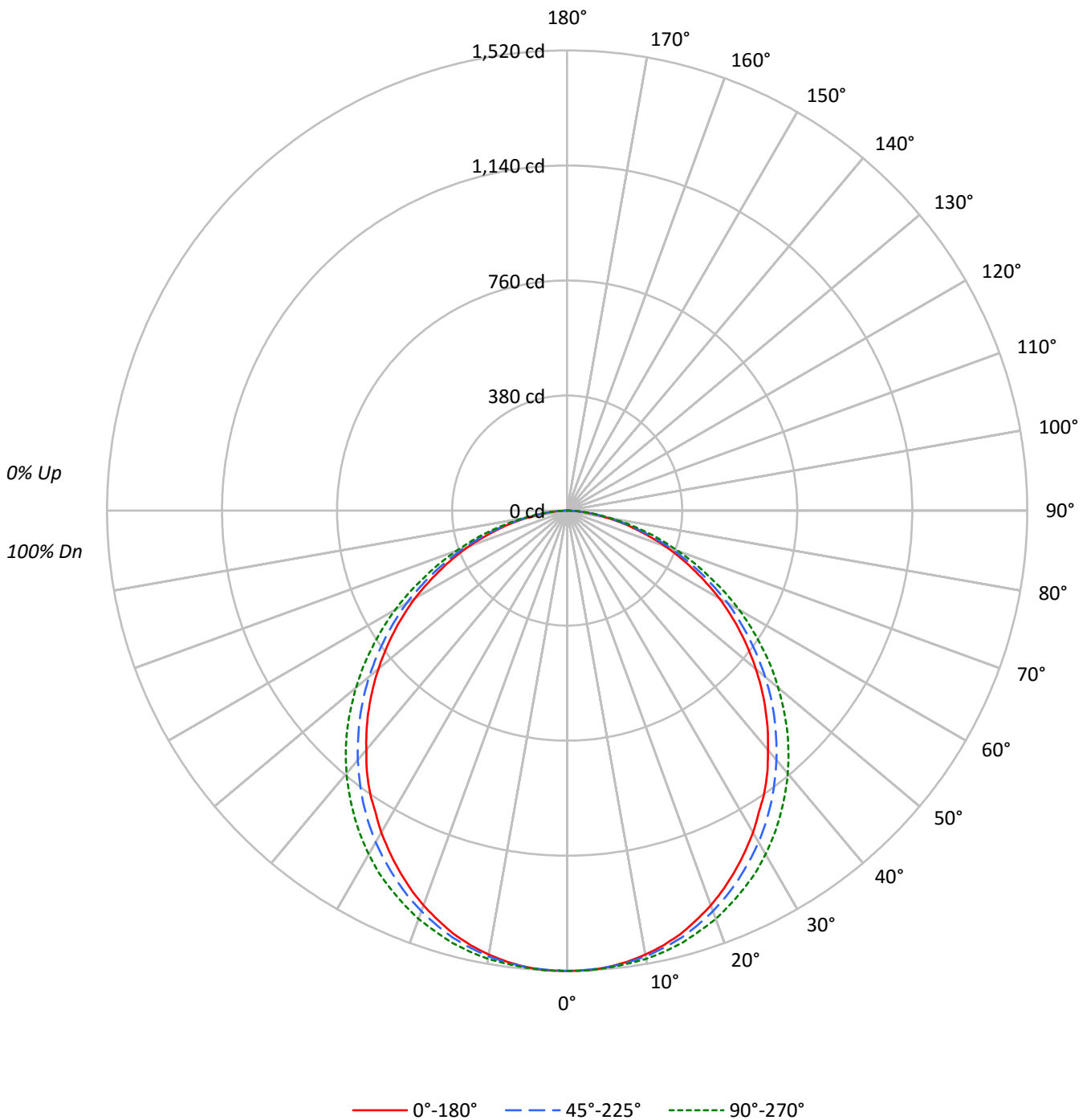
Lumens per Lamp: N/A  
Luminaire Lumens: 4129.4 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.7  
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°	4092	4092	4092
5°	4090	4090	4096
10°	4069	4087	4109
15°	4033	4068	4115
20°	3973	4033	4110
25°	3898	3984	4095
30°	3814	3931	4073
35°	3733	3862	4033
40°	3626	3780	3984
45°	3526	3684	3913
50°	3409	3574	3809
55°	3274	3440	3684
60°	3130	3298	3533
65°	2923	3095	3307
70°	2713	2860	3056
75°	2418	2548	2765
80°	2029	2125	2318
85°	1541	1541	1732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.9	3.5
10°-20°	411.8	10.0
20°-30°	619.1	15.0
30°-40°	736.5	17.8
40°-50°	749.4	18.1
50°-60°	659.6	16.0
60°-70°	483.8	11.7
70°-80°	262.6	6.4
80°-90°	62.7	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°	1174.8	28.4
0°-40°	1911.3	46.3
0°-60°	3320.3	80.4
0°-90°	4129.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4129.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1520	1520	1520	1520	1520	
5°	1514	1512	1514	1514	1516	144
15°	1448	1450	1460	1469	1477	408
25°	1313	1321	1342	1365	1379	605
35°	1136	1144	1176	1211	1228	709
45°	926	935	968	1010	1028	714
55°	698	708	733	768	785	624
65°	459	467	486	507	519	456
75°	233	237	245	258	266	247
85°	50	50	50	54	56	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1520.5	1520.5	1520.5	1520.5	1520.5
2.5°	1520.5	1518.4	1518.4	1518.4	1520.5
5°	1514.2	1512.2	1514.2	1514.2	1516.3
7.5°	1503.9	1501.8	1505.9	1508.0	1510.1
10°	1489.3	1489.3	1495.6	1499.7	1503.9
12.5°	1470.6	1472.7	1478.9	1485.2	1491.4
15°	1447.8	1449.9	1460.2	1468.6	1476.9
17.5°	1418.7	1422.9	1435.3	1447.8	1456.1
20°	1387.5	1393.8	1408.3	1424.9	1435.3
22.5°	1352.2	1360.5	1377.2	1397.9	1408.3
25°	1312.8	1321.1	1341.8	1364.7	1379.2
27.5°	1271.2	1281.6	1304.5	1331.5	1348.1
30°	1227.6	1238.0	1265.0	1294.1	1310.7
32.5°	1179.8	1192.3	1221.4	1254.6	1271.2
35°	1136.2	1144.5	1175.7	1211.0	1227.6
37.5°	1086.4	1096.7	1125.8	1163.2	1181.9
40°	1032.3	1042.7	1076.0	1113.4	1134.1
42.5°	980.4	988.7	1022.0	1063.5	1082.2
45°	926.4	934.7	968.0	1009.5	1028.2
47.5°	870.3	880.7	911.9	951.3	970.0
50°	814.2	822.6	853.7	891.1	909.8
52.5°	756.1	764.4	793.5	830.9	849.6
55°	697.9	708.3	733.2	768.5	785.2
57.5°	639.8	650.2	673.0	706.2	720.8
60°	581.6	589.9	612.8	641.8	656.4
62.5°	519.3	525.5	548.4	577.4	589.9
65°	459.1	467.4	486.1	506.8	519.3
67.5°	403.0	407.1	423.7	446.6	454.9
70°	344.8	349.0	363.5	382.2	388.4
72.5°	286.6	292.9	303.3	319.9	328.2
75°	232.6	236.8	245.1	257.6	265.9
77.5°	180.7	182.8	189.0	199.4	205.6
80°	130.9	132.9	137.1	145.4	149.6
82.5°	87.2	89.3	91.4	95.5	99.7
85°	49.9	49.9	49.9	54.0	56.1
87.5°	18.7	16.6	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)