

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: P384012

Luminaire Tested: **24ID-40-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384012  
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: 24ID-40-L840-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

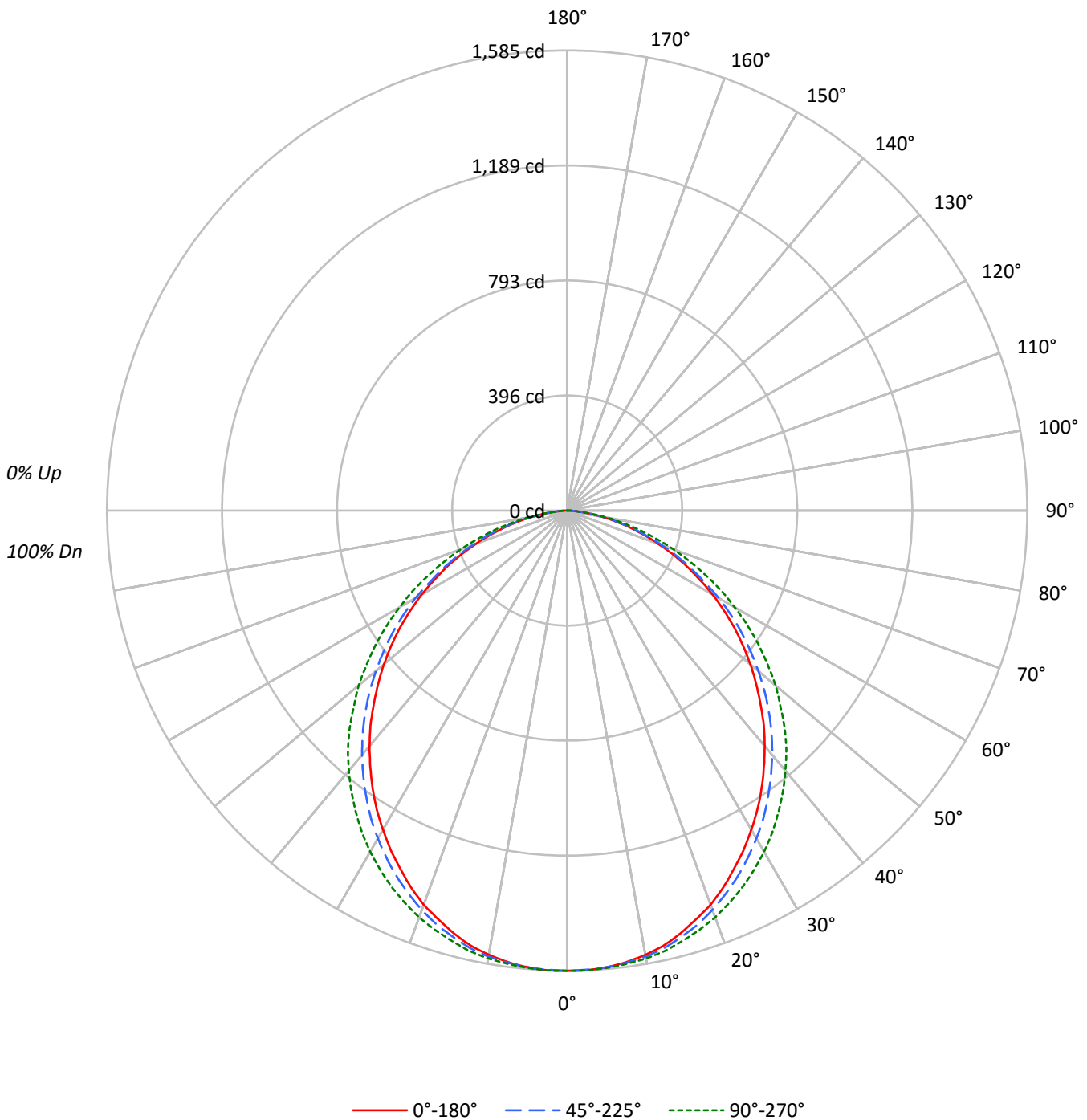
Lumens per Lamp: N/A  
Luminaire Lumens: 4185.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (Ain): 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°	2133	2133	2133
5°	2133	2133	2135
10°	2123	2132	2140
15°	2100	2118	2138
20°	2069	2096	2135
25°	2021	2064	2123
30°	1971	2026	2108
35°	1918	1981	2084
40°	1860	1930	2055
45°	1792	1871	2015
50°	1725	1800	1962
55°	1648	1722	1889
60°	1558	1625	1794
65°	1449	1495	1676
70°	1312	1361	1534
75°	1145	1188	1341
80°	926	942	1056
85°	550	614	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.1	3.6
10°-20°	429.0	10.2
20°-30°	641.7	15.3
30°-40°	758.1	18.1
40°-50°	765.0	18.3
50°-60°	664.3	15.9
60°-70°	476.4	11.4
70°-80°	248.2	5.9
80°-90°	52.4	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°	1220.7	29.2
0°-40°	1978.8	47.3
0°-60°	3408.1	81.4
0°-90°	4185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1579	1577	1579	1579	1581	150
15°	1508	1510	1520	1531	1535	425
25°	1361	1369	1390	1418	1430	627
35°	1168	1176	1206	1250	1269	730
45°	942	952	984	1034	1059	727
55°	702	709	734	782	805	627
65°	455	453	470	505	526	450
75°	220	218	229	245	258	235
85°	36	40	40	36	34	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1585.3	1585.3	1585.3	1585.3	1585.3
2.5°	1585.3	1583.2	1583.2	1583.2	1585.3
5°	1579.0	1576.9	1579.0	1579.0	1581.1
7.5°	1568.6	1566.5	1570.7	1572.8	1574.8
10°	1553.9	1553.9	1560.2	1564.4	1566.5
12.5°	1535.0	1535.0	1543.4	1549.7	1553.9
15°	1507.7	1509.8	1520.3	1530.8	1535.0
17.5°	1476.3	1482.6	1495.2	1509.8	1514.0
20°	1444.8	1449.0	1463.7	1482.6	1491.0
22.5°	1405.0	1411.3	1428.1	1453.2	1461.6
25°	1361.0	1369.3	1390.3	1417.6	1430.2
27.5°	1316.9	1323.2	1348.4	1379.8	1394.5
30°	1268.7	1277.1	1304.3	1340.0	1356.8
32.5°	1220.5	1226.7	1258.2	1295.9	1314.8
35°	1168.0	1176.4	1205.8	1249.8	1268.7
37.5°	1113.5	1124.0	1153.4	1199.5	1220.5
40°	1059.0	1065.3	1098.8	1145.0	1170.1
42.5°	1002.4	1010.8	1042.2	1092.5	1117.7
45°	941.6	952.0	983.5	1033.8	1059.0
47.5°	882.8	893.3	922.7	973.0	996.1
50°	824.1	830.4	859.8	910.1	937.4
52.5°	763.3	769.6	796.9	845.1	870.3
55°	702.5	708.8	734.0	782.2	805.2
57.5°	639.6	643.8	668.9	713.0	736.0
60°	578.8	580.9	603.9	643.8	666.8
62.5°	513.8	515.9	532.6	578.8	599.7
65°	455.0	453.0	469.7	505.4	526.3
67.5°	394.2	394.2	408.9	440.4	457.1
70°	333.4	333.4	346.0	373.3	390.0
72.5°	276.8	276.8	287.3	308.3	320.8
75°	220.2	218.1	228.6	245.3	257.9
77.5°	167.8	167.8	172.0	186.6	195.0
80°	119.5	119.5	121.6	130.0	136.3
82.5°	75.5	75.5	75.5	79.7	81.8
85°	35.6	39.8	39.8	35.6	33.6
87.5°	16.8	16.8	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)