

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: P384011

Luminaire Tested: **24ID-40-L835-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384011  
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-L835-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

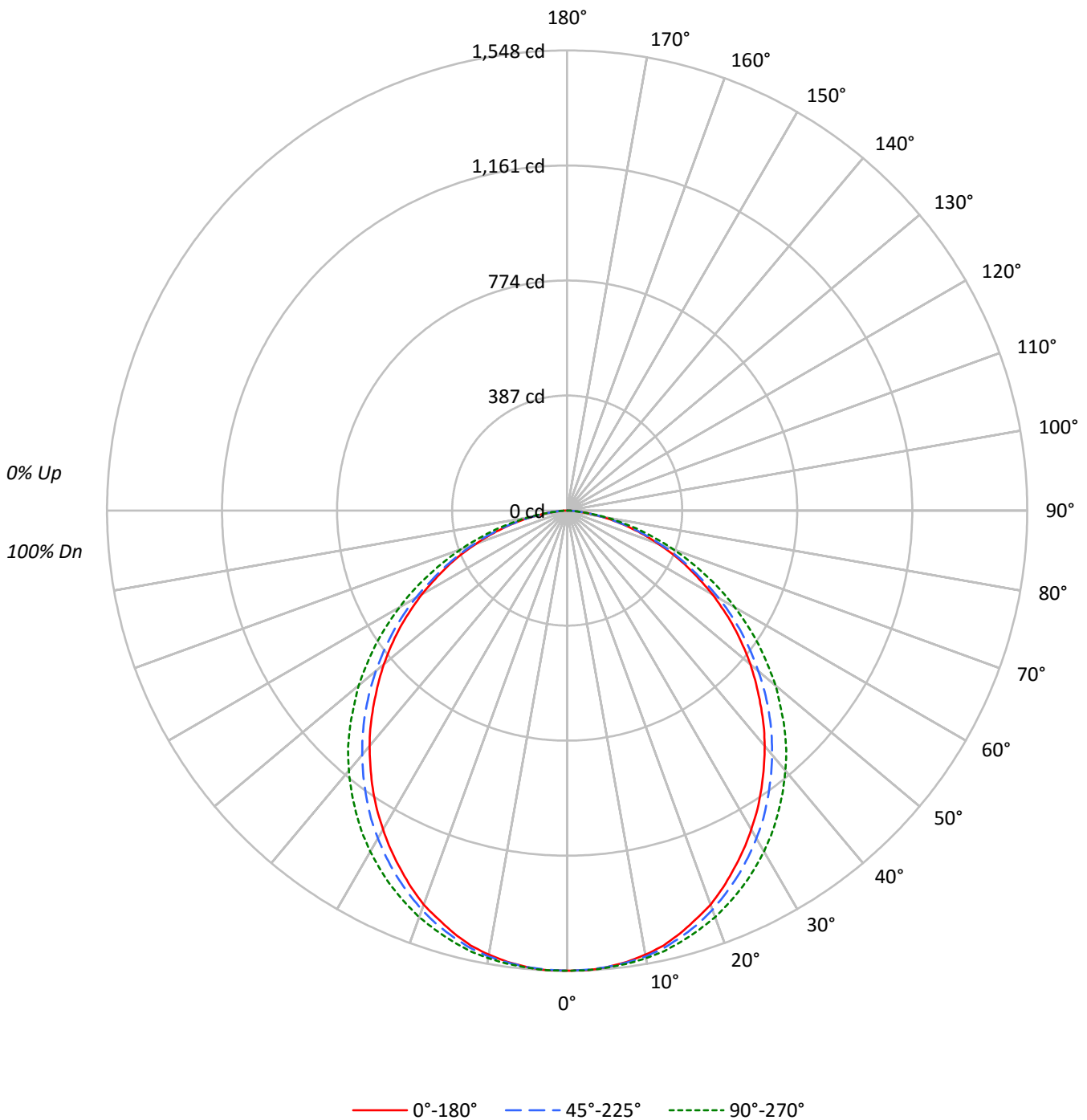
Lumens per Lamp: N/A  
Luminaire Lumens: 4085.8 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2083	2083	2083
5°	2082	2082	2085
10°	2073	2081	2089
15°	2050	2068	2087
20°	2020	2046	2084
25°	1973	2015	2073
30°	1924	1978	2058
35°	1873	1934	2034
40°	1816	1884	2007
45°	1749	1827	1967
50°	1684	1757	1915
55°	1609	1681	1844
60°	1521	1587	1752
65°	1415	1460	1636
70°	1281	1329	1498
75°	1118	1160	1309
80°	904	920	1031
85°	537	601	506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	3.6
10°-20°	418.8	10.2
20°-30°	626.5	15.3
30°-40°	740.1	18.1
40°-50°	746.8	18.3
50°-60°	648.6	15.9
60°-70°	465.1	11.4
70°-80°	242.3	5.9
80°-90°	51.1	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°	1191.8	29.2
0°-40°	1931.9	47.3
0°-60°	3327.3	81.4
0°-90°	4085.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4085.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1542	1540	1542	1542	1544	146
15°	1472	1474	1484	1494	1499	415
25°	1329	1337	1357	1384	1396	612
35°	1140	1148	1177	1220	1239	713
45°	919	930	960	1009	1034	710
55°	686	692	717	764	786	613
65°	444	442	459	493	514	439
75°	215	213	223	240	252	229
85°	35	39	39	35	33	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1547.8	1547.8	1547.8	1547.8	1547.8
2.5°	1547.8	1545.7	1545.7	1545.7	1547.8
5°	1541.6	1539.6	1541.6	1541.6	1543.7
7.5°	1531.4	1529.3	1533.4	1535.5	1537.5
10°	1517.0	1517.0	1523.2	1527.3	1529.3
12.5°	1498.6	1498.6	1506.8	1513.0	1517.0
15°	1472.0	1474.1	1484.3	1494.5	1498.6
17.5°	1441.3	1447.4	1459.7	1474.1	1478.1
20°	1410.6	1414.7	1429.0	1447.4	1455.6
22.5°	1371.7	1377.8	1394.2	1418.8	1427.0
25°	1328.7	1336.9	1357.4	1384.0	1396.3
27.5°	1285.7	1291.8	1316.4	1347.1	1361.5
30°	1238.6	1246.8	1273.4	1308.2	1324.6
32.5°	1191.5	1197.7	1228.4	1265.2	1283.7
35°	1140.3	1148.5	1177.2	1220.2	1238.6
37.5°	1087.1	1097.4	1126.0	1171.1	1191.5
40°	1033.9	1040.0	1072.8	1117.8	1142.4
42.5°	978.6	986.8	1017.5	1066.6	1091.2
45°	919.2	929.5	960.2	1009.3	1033.9
47.5°	861.9	872.1	900.8	949.9	972.5
50°	804.6	810.7	839.4	888.5	915.1
52.5°	745.2	751.4	778.0	825.1	849.6
55°	685.8	692.0	716.6	763.6	786.2
57.5°	624.4	628.5	653.1	696.1	718.6
60°	565.1	567.1	589.6	628.5	651.0
62.5°	501.6	503.6	520.0	565.1	585.5
65°	444.3	442.2	458.6	493.4	513.9
67.5°	384.9	384.9	399.2	429.9	446.3
70°	325.5	325.5	337.8	364.4	380.8
72.5°	270.2	270.2	280.5	301.0	313.2
75°	215.0	212.9	223.2	239.5	251.8
77.5°	163.8	163.8	167.9	182.2	190.4
80°	116.7	116.7	118.7	126.9	133.1
82.5°	73.7	73.7	73.7	77.8	79.8
85°	34.8	38.9	38.9	34.8	32.8
87.5°	16.4	16.4	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)