

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: P384017

Luminaire Tested: **24ID-45-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384017
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-45-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

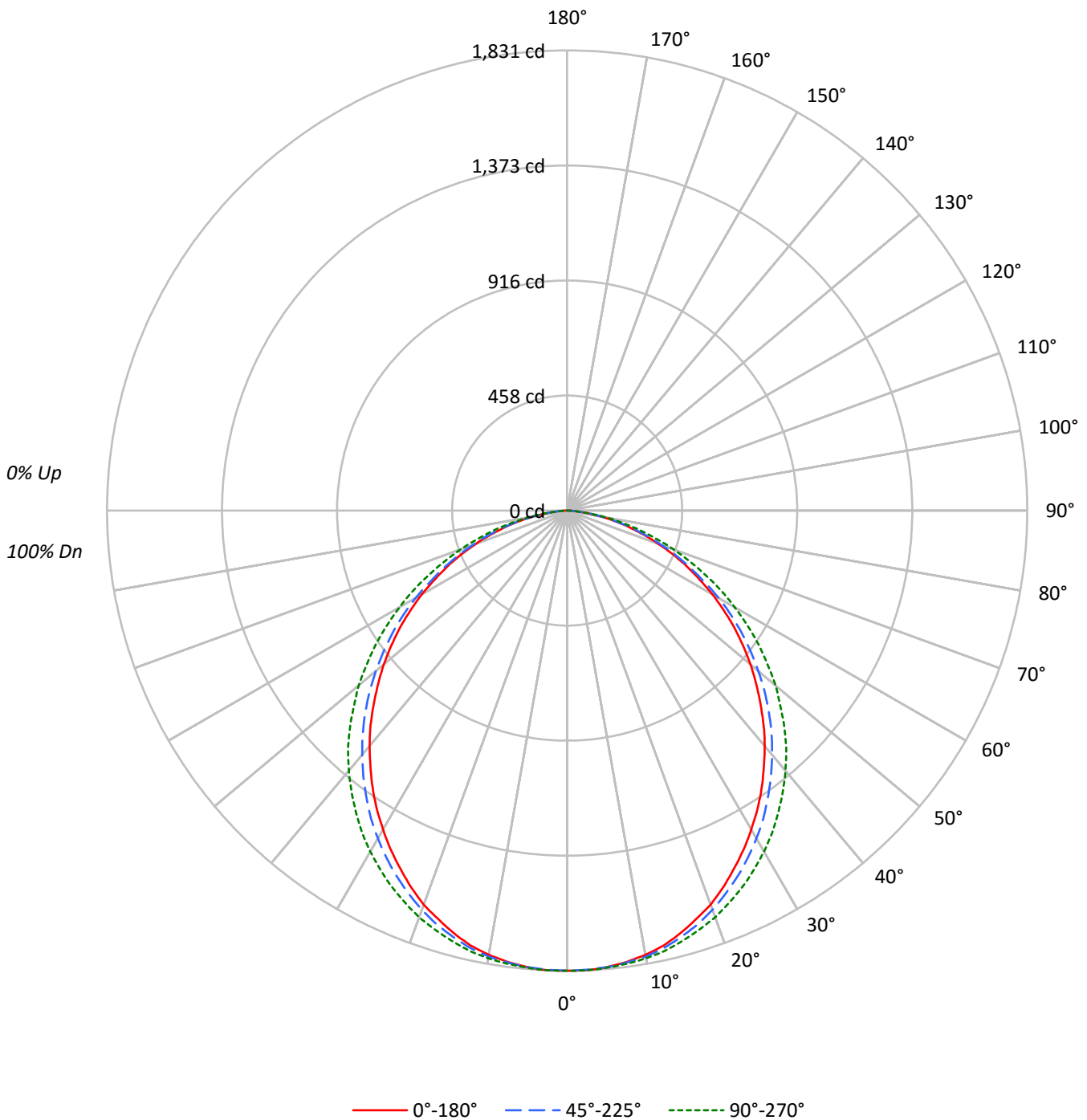
Lumens per Lamp: N/A
Luminaire Lumens: 4833.2 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): 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°	2463	2463	2463
5°	2463	2463	2466
10°	2452	2462	2472
15°	2426	2446	2469
20°	2389	2420	2465
25°	2333	2384	2452
30°	2276	2340	2434
35°	2216	2287	2407
40°	2148	2229	2374
45°	2069	2161	2327
50°	1992	2078	2266
55°	1903	1988	2182
60°	1799	1877	2072
65°	1673	1727	1935
70°	1515	1572	1772
75°	1322	1372	1549
80°	1069	1089	1220
85°	636	710	597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.6
10°-20°	495.4	10.2
20°-30°	741.0	15.3
30°-40°	875.5	18.1
40°-50°	883.5	18.3
50°-60°	767.2	15.9
60°-70°	550.2	11.4
70°-80°	286.6	5.9
80°-90°	60.5	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°	1409.8	29.2
0°-40°	2285.3	47.3
0°-60°	3936.0	81.4
0°-90°	4833.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4833.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1824	1821	1824	1824	1826	173
15°	1741	1744	1756	1768	1773	491
25°	1572	1581	1606	1637	1652	724
35°	1349	1359	1392	1443	1465	843
45°	1087	1100	1136	1194	1223	840
55°	811	819	848	903	930	725
65°	526	523	542	584	608	520
75°	254	252	264	283	298	271
85°	41	46	46	41	39	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.9	1830.9	1830.9	1830.9	1830.9
2.5°	1830.9	1828.5	1828.5	1828.5	1830.9
5°	1823.6	1821.2	1823.6	1823.6	1826.0
7.5°	1811.5	1809.1	1813.9	1816.3	1818.8
10°	1794.6	1794.6	1801.8	1806.7	1809.1
12.5°	1772.8	1772.8	1782.4	1789.7	1794.6
15°	1741.3	1743.7	1755.8	1767.9	1772.8
17.5°	1704.9	1712.2	1726.7	1743.7	1748.5
20°	1668.6	1673.5	1690.4	1712.2	1721.9
22.5°	1622.6	1629.9	1649.2	1678.3	1688.0
25°	1571.7	1581.4	1605.7	1637.1	1651.7
27.5°	1520.9	1528.2	1557.2	1593.5	1610.5
30°	1465.2	1474.9	1506.4	1547.5	1566.9
32.5°	1409.5	1416.8	1453.1	1496.7	1518.5
35°	1348.9	1358.6	1392.5	1443.4	1465.2
37.5°	1286.0	1298.1	1332.0	1385.3	1409.5
40°	1223.0	1230.3	1269.0	1322.3	1351.4
42.5°	1157.6	1167.3	1203.6	1261.8	1290.8
45°	1087.4	1099.5	1135.8	1193.9	1223.0
47.5°	1019.6	1031.7	1065.6	1123.7	1150.4
50°	951.8	959.0	992.9	1051.1	1082.5
52.5°	881.5	888.8	920.3	976.0	1005.0
55°	811.3	818.6	847.6	903.3	930.0
57.5°	738.6	743.5	772.6	823.4	850.1
60°	668.4	670.8	697.5	743.5	770.1
62.5°	593.3	595.8	615.1	668.4	692.6
65°	525.5	523.1	542.5	583.7	607.9
67.5°	455.3	455.3	472.3	508.6	528.0
70°	385.1	385.1	399.6	431.1	450.5
72.5°	319.7	319.7	331.8	356.0	370.5
75°	254.3	251.9	264.0	283.4	297.9
77.5°	193.7	193.7	198.6	215.5	225.2
80°	138.0	138.0	140.5	150.2	157.4
82.5°	87.2	87.2	87.2	92.0	94.5
85°	41.2	46.0	46.0	41.2	38.7
87.5°	19.4	19.4	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)