

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: P384015

Luminaire Tested: **24ID-45-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384015
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-L835-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

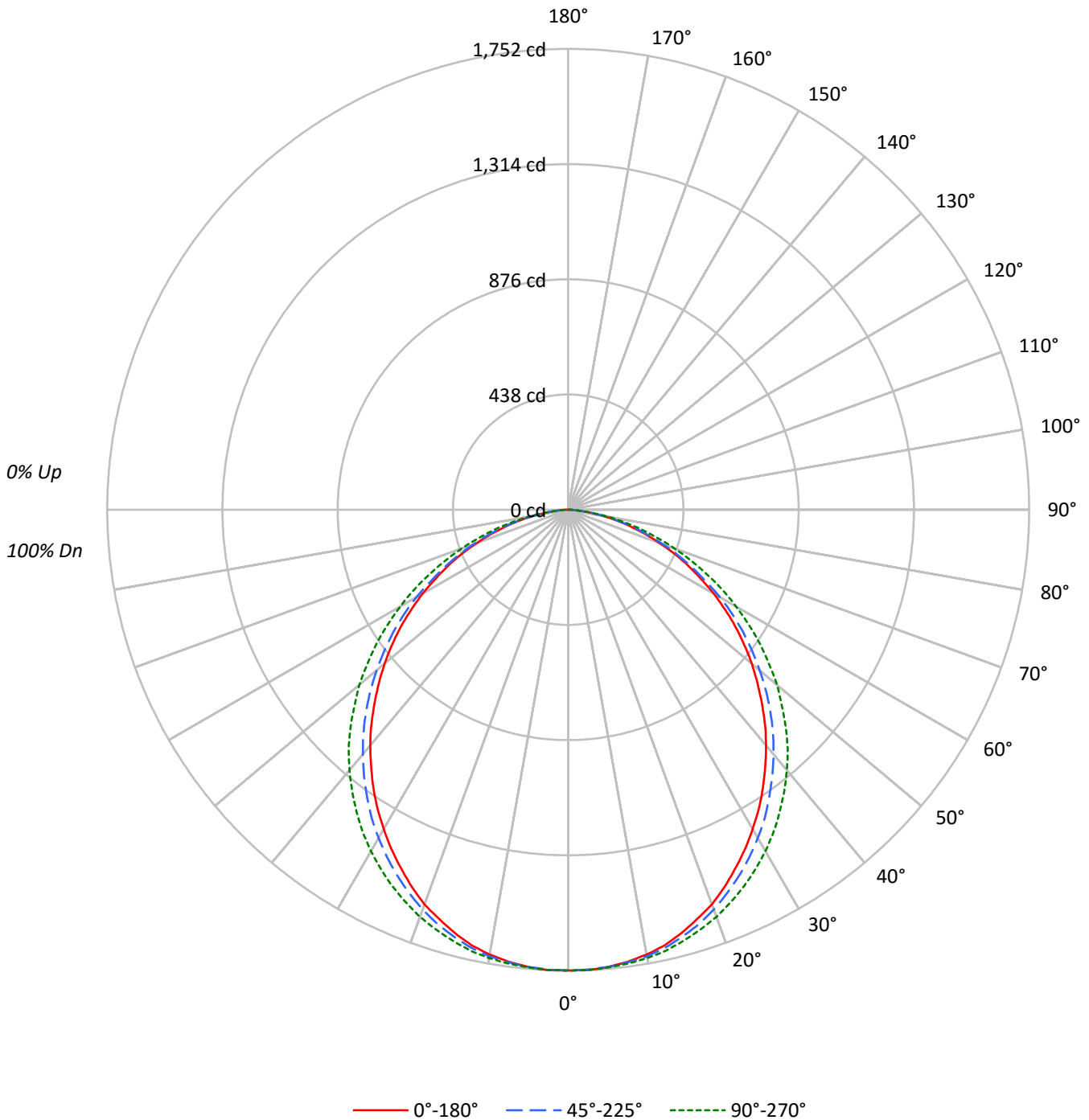
Lumens per Lamp: N/A
Luminaire Lumens: 4624.3 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
Input Current (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°	2357	2357	2357
5°	2357	2357	2360
10°	2346	2355	2365
15°	2321	2340	2363
20°	2286	2316	2359
25°	2233	2281	2346
30°	2178	2239	2329
35°	2120	2188	2303
40°	2055	2133	2271
45°	1980	2068	2226
50°	1906	1989	2168
55°	1821	1902	2087
60°	1721	1796	1983
65°	1601	1652	1852
70°	1449	1504	1696
75°	1265	1313	1482
80°	1024	1041	1167
85°	608	679	573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.6
10°-20°	474.0	10.2
20°-30°	709.0	15.3
30°-40°	837.7	18.1
40°-50°	845.3	18.3
50°-60°	734.1	15.9
60°-70°	526.4	11.4
70°-80°	274.2	5.9
80°-90°	57.9	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°	1348.8	29.2
0°-40°	2186.5	47.3
0°-60°	3765.8	81.4
0°-90°	4624.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4624.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1745	1742	1745	1745	1747	166
15°	1666	1668	1680	1692	1696	469
25°	1504	1513	1536	1566	1580	693
35°	1291	1300	1332	1381	1402	807
45°	1040	1052	1087	1142	1170	803
55°	776	783	811	864	890	693
65°	503	500	519	558	582	497
75°	243	241	253	271	285	260
85°	39	44	44	39	37	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.7	1751.7	1751.7	1751.7	1751.7
2.5°	1751.7	1749.4	1749.4	1749.4	1751.7
5°	1744.8	1742.5	1744.8	1744.8	1747.1
7.5°	1733.2	1730.9	1735.5	1737.8	1740.2
10°	1717.0	1717.0	1723.9	1728.6	1730.9
12.5°	1696.1	1696.1	1705.4	1712.4	1717.0
15°	1666.0	1668.3	1679.9	1691.5	1696.1
17.5°	1631.3	1638.2	1652.1	1668.3	1673.0
20°	1596.5	1601.1	1617.4	1638.2	1647.5
22.5°	1552.5	1559.4	1578.0	1605.8	1615.0
25°	1503.8	1513.1	1536.3	1566.4	1580.3
27.5°	1455.2	1462.1	1489.9	1524.7	1540.9
30°	1401.9	1411.1	1441.3	1480.6	1499.2
32.5°	1348.6	1355.5	1390.3	1432.0	1452.8
35°	1290.6	1299.9	1332.3	1381.0	1401.9
37.5°	1230.4	1242.0	1274.4	1325.4	1348.6
40°	1170.1	1177.1	1214.2	1265.1	1293.0
42.5°	1107.6	1116.9	1151.6	1207.2	1235.0
45°	1040.4	1052.0	1086.7	1142.3	1170.1
47.5°	975.5	987.1	1019.5	1075.1	1100.6
50°	910.6	917.6	950.0	1005.6	1035.8
52.5°	843.4	850.4	880.5	933.8	961.6
55°	776.2	783.2	811.0	864.3	889.8
57.5°	706.7	711.4	739.2	787.8	813.3
60°	639.5	641.8	667.3	711.4	736.8
62.5°	567.7	570.0	588.5	639.5	662.7
65°	502.8	500.5	519.0	558.4	581.6
67.5°	435.6	435.6	451.8	486.6	505.1
70°	368.4	368.4	382.3	412.4	431.0
72.5°	305.9	305.9	317.4	340.6	354.5
75°	243.3	241.0	252.6	271.1	285.0
77.5°	185.4	185.4	190.0	206.2	215.5
80°	132.1	132.1	134.4	143.7	150.6
82.5°	83.4	83.4	83.4	88.1	90.4
85°	39.4	44.0	44.0	39.4	37.1
87.5°	18.5	18.5	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)