

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: P383851

Luminaire Tested: **24ID-50-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383851
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: 24ID-50-L835-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

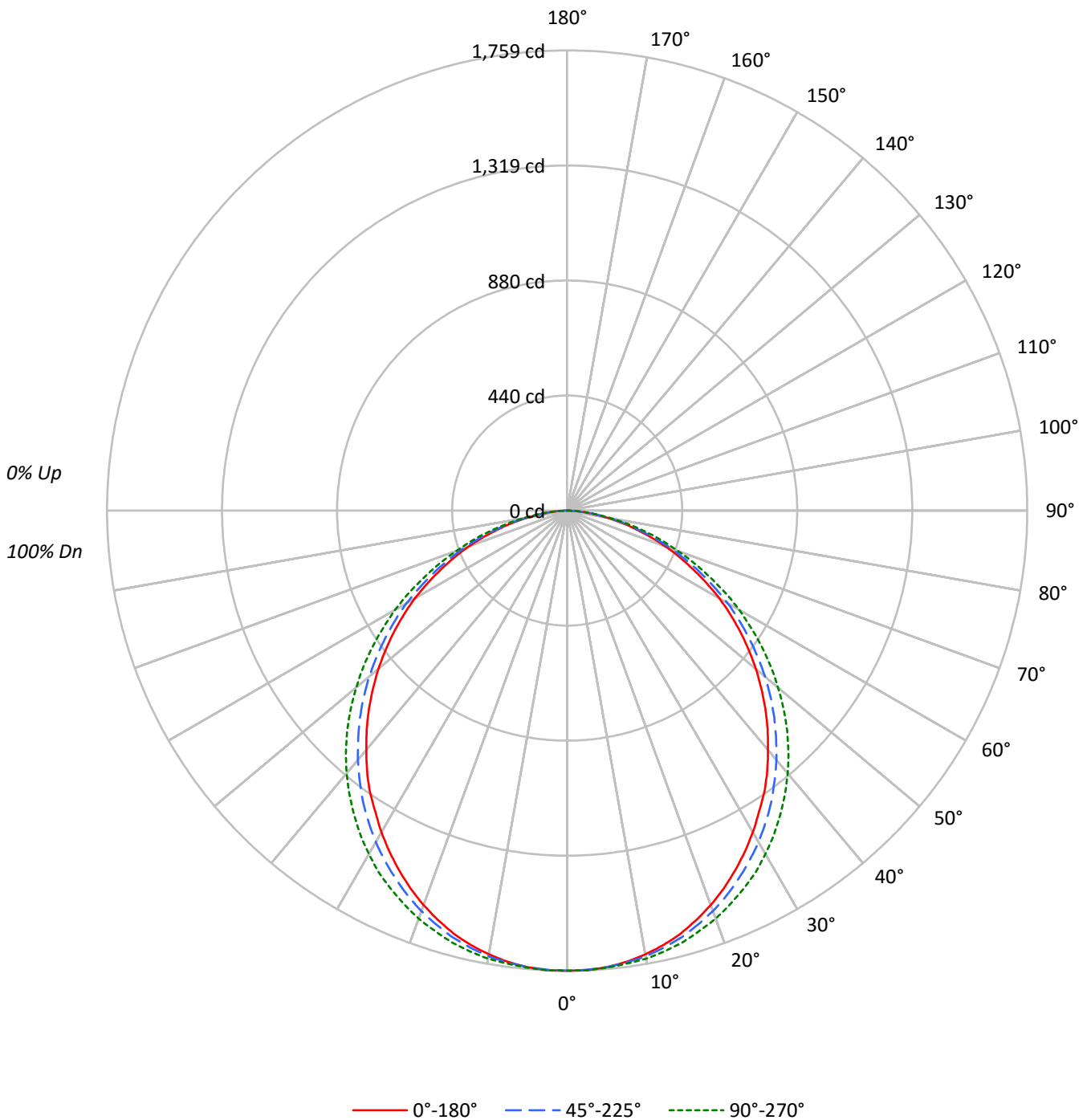
Lumens per Lamp: N/A
Luminaire Lumens: 4776.4 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
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



TEST NUMBER: P383851
CATALOG NUMBER: 24ID-50-L835-CFR1

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°	2366	2366	2366
5°	2366	2366	2369
10°	2354	2363	2377
15°	2333	2353	2380
20°	2298	2332	2377
25°	2254	2304	2368
30°	2206	2273	2355
35°	2159	2234	2332
40°	2097	2186	2304
45°	2039	2130	2263
50°	1971	2067	2203
55°	1894	1989	2130
60°	1810	1907	2043
65°	1691	1790	1912
70°	1569	1654	1768
75°	1399	1474	1599
80°	1173	1229	1340
85°	891	891	1002



TEST NUMBER: P383851

CATALOG NUMBER: 24ID-50-L835-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.5
10°-20°	476.3	10.0
20°-30°	716.1	15.0
30°-40°	851.9	17.8
40°-50°	866.8	18.1
50°-60°	762.9	16.0
60°-70°	559.6	11.7
70°-80°	303.8	6.4
80°-90°	72.5	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°	1358.9	28.4
0°-40°	2210.8	46.3
0°-60°	3840.5	80.4
0°-90°	4776.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4776.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1759	1759	1759	1759	1759	
5°	1752	1749	1752	1752	1754	166
15°	1675	1677	1689	1699	1708	472
25°	1518	1528	1552	1578	1595	699
35°	1314	1324	1360	1401	1420	821
45°	1072	1081	1120	1168	1189	826
55°	807	819	848	889	908	722
65°	531	541	562	586	601	528
75°	269	274	284	298	308	286
85°	58	58	58	62	65	70
90°	0	0	0	0	0	



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CATALOG NUMBER: 24ID-50-L835-CFR1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.7	1758.7	1758.7	1758.7	1758.7
2.5°	1758.7	1756.3	1756.3	1756.3	1758.7
5°	1751.5	1749.1	1751.5	1751.5	1753.9
7.5°	1739.5	1737.1	1741.9	1744.3	1746.7
10°	1722.7	1722.7	1729.9	1734.7	1739.5
12.5°	1701.0	1703.4	1710.7	1717.9	1725.1
15°	1674.6	1677.0	1689.0	1698.6	1708.3
17.5°	1641.0	1645.8	1660.2	1674.6	1684.2
20°	1604.9	1612.2	1629.0	1648.2	1660.2
22.5°	1564.1	1573.7	1592.9	1617.0	1629.0
25°	1518.4	1528.1	1552.1	1578.5	1595.3
27.5°	1470.4	1482.4	1508.8	1540.1	1559.3
30°	1419.9	1432.0	1463.2	1496.8	1516.0
32.5°	1364.7	1379.1	1412.7	1451.2	1470.4
35°	1314.2	1323.8	1359.9	1400.7	1419.9
37.5°	1256.6	1268.6	1302.2	1345.5	1367.1
40°	1194.1	1206.1	1244.6	1287.8	1311.8
42.5°	1134.0	1143.6	1182.1	1230.1	1251.8
45°	1071.6	1081.2	1119.6	1167.7	1189.3
47.5°	1006.7	1018.7	1054.7	1100.4	1122.0
50°	941.8	951.4	987.5	1030.7	1052.3
52.5°	874.5	884.2	917.8	961.0	982.7
55°	807.3	819.3	848.1	889.0	908.2
57.5°	740.0	752.0	778.4	816.9	833.7
60°	672.7	682.3	708.8	742.4	759.2
62.5°	600.7	607.9	634.3	667.9	682.3
65°	531.0	540.6	562.2	586.2	600.7
67.5°	466.1	470.9	490.1	516.6	526.2
70°	398.8	403.6	420.5	442.1	449.3
72.5°	331.6	338.8	350.8	370.0	379.6
75°	269.1	273.9	283.5	297.9	307.5
77.5°	209.0	211.4	218.6	230.7	237.9
80°	151.4	153.8	158.6	168.2	173.0
82.5°	100.9	103.3	105.7	110.5	115.3
85°	57.7	57.7	57.7	62.5	64.9
87.5°	21.6	19.2	19.2	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)