

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: P385363

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-50-L835-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

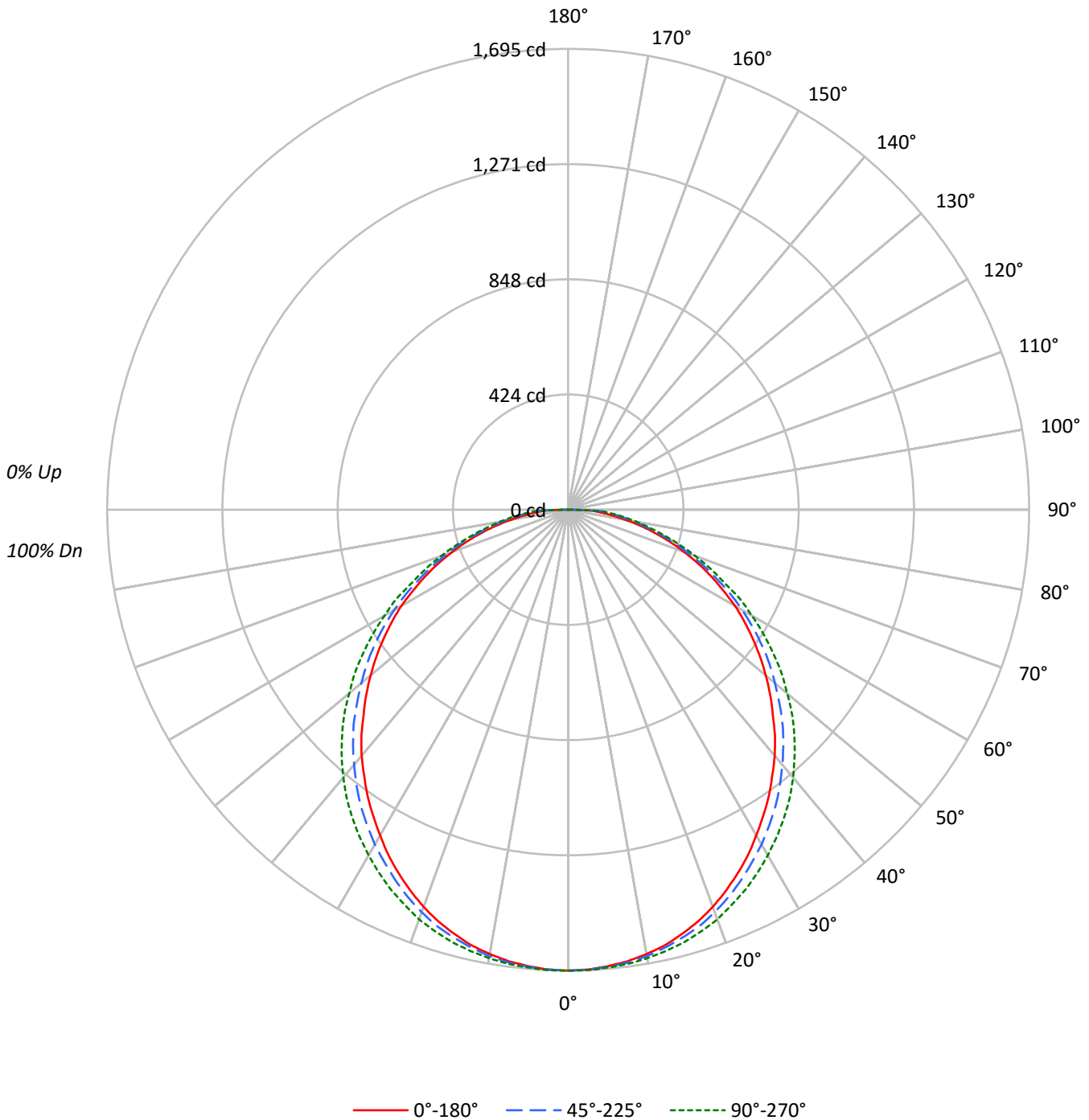
Lumens per Lamp: N/A
Luminaire Lumens: 4917.1 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 44.1
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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2281	2281	2281
5°	2268	2262	2266
10°	2251	2243	2255
15°	2226	2216	2244
20°	2193	2185	2228
25°	2149	2144	2203
30°	2099	2102	2176
35°	2053	2057	2147
40°	2005	2003	2111
45°	1943	1949	2066
50°	1892	1879	2001
55°	1834	1811	1930
60°	1778	1725	1834
65°	1696	1615	1706
70°	1598	1497	1588
75°	1484	1369	1450
80°	1330	1241	1332
85°	1257	1178	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.3
10°-20°	459.7	9.3
20°-30°	693.7	14.1
30°-40°	832.7	16.9
40°-50°	861.7	17.5
50°-60°	780.7	15.9
60°-70°	601.5	12.2
70°-80°	372.2	7.6
80°-90°	154.6	3.1
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°	1313.8	26.7
0°-40°	2146.5	43.7
0°-60°	3788.9	77.1
0°-90°	4917.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4917.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1685	1685	1688	1688	1690	160
15°	1616	1619	1629	1639	1647	456
25°	1475	1480	1504	1529	1542	680
35°	1286	1296	1330	1366	1383	804
45°	1064	1079	1115	1156	1176	823
55°	828	841	869	908	920	742
65°	580	586	604	629	632	574
75°	330	338	350	366	366	349
85°	120	133	153	164	161	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.3	1695.3	1695.3	1695.3	1695.3
2.5°	1692.8	1692.8	1692.8	1692.8	1695.3
5°	1685.1	1685.1	1687.6	1687.6	1690.2
7.5°	1674.9	1674.9	1680.0	1680.0	1685.1
10°	1659.5	1662.1	1667.2	1669.7	1674.9
12.5°	1641.6	1641.6	1649.3	1657.0	1662.1
15°	1616.0	1618.6	1628.8	1639.1	1646.7
17.5°	1587.9	1590.5	1605.8	1616.0	1626.3
20°	1554.7	1557.2	1575.1	1590.5	1603.3
22.5°	1516.3	1521.4	1541.9	1562.4	1572.6
25°	1475.4	1480.5	1503.5	1529.1	1541.9
27.5°	1431.9	1439.6	1462.6	1490.8	1506.1
30°	1383.4	1393.6	1421.7	1452.4	1467.7
32.5°	1334.8	1345.0	1375.7	1411.5	1426.8
35°	1286.2	1296.4	1329.7	1365.5	1383.4
37.5°	1232.5	1242.7	1278.5	1316.9	1337.3
40°	1181.4	1191.6	1224.8	1268.3	1286.2
42.5°	1125.1	1135.3	1171.1	1212.0	1232.5
45°	1063.7	1079.1	1114.9	1155.8	1176.2
47.5°	1007.5	1020.3	1053.5	1097.0	1117.4
50°	948.7	961.4	992.1	1035.6	1050.9
52.5°	889.8	902.6	933.3	974.2	989.6
55°	828.5	841.3	869.4	907.7	920.5
57.5°	769.7	779.9	805.5	841.3	851.5
60°	708.3	718.5	739.0	772.2	779.9
62.5°	641.8	649.5	672.5	703.2	713.4
65°	580.4	585.6	603.5	629.0	631.6
67.5°	516.5	521.6	539.5	557.4	565.1
70°	452.6	460.3	473.1	491.0	496.1
72.5°	391.2	398.9	411.7	427.0	429.6
75°	329.9	337.5	350.3	365.7	365.7
77.5°	271.0	278.7	294.1	306.8	306.8
80°	212.2	225.0	240.4	253.1	253.1
82.5°	163.7	173.9	194.3	204.6	204.6
85°	120.2	133.0	153.4	163.7	161.1
87.5°	86.9	99.7	117.6	125.3	122.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)