

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: P385367

Luminaire Tested: **24ID-55-L835-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385367
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-55-L835-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

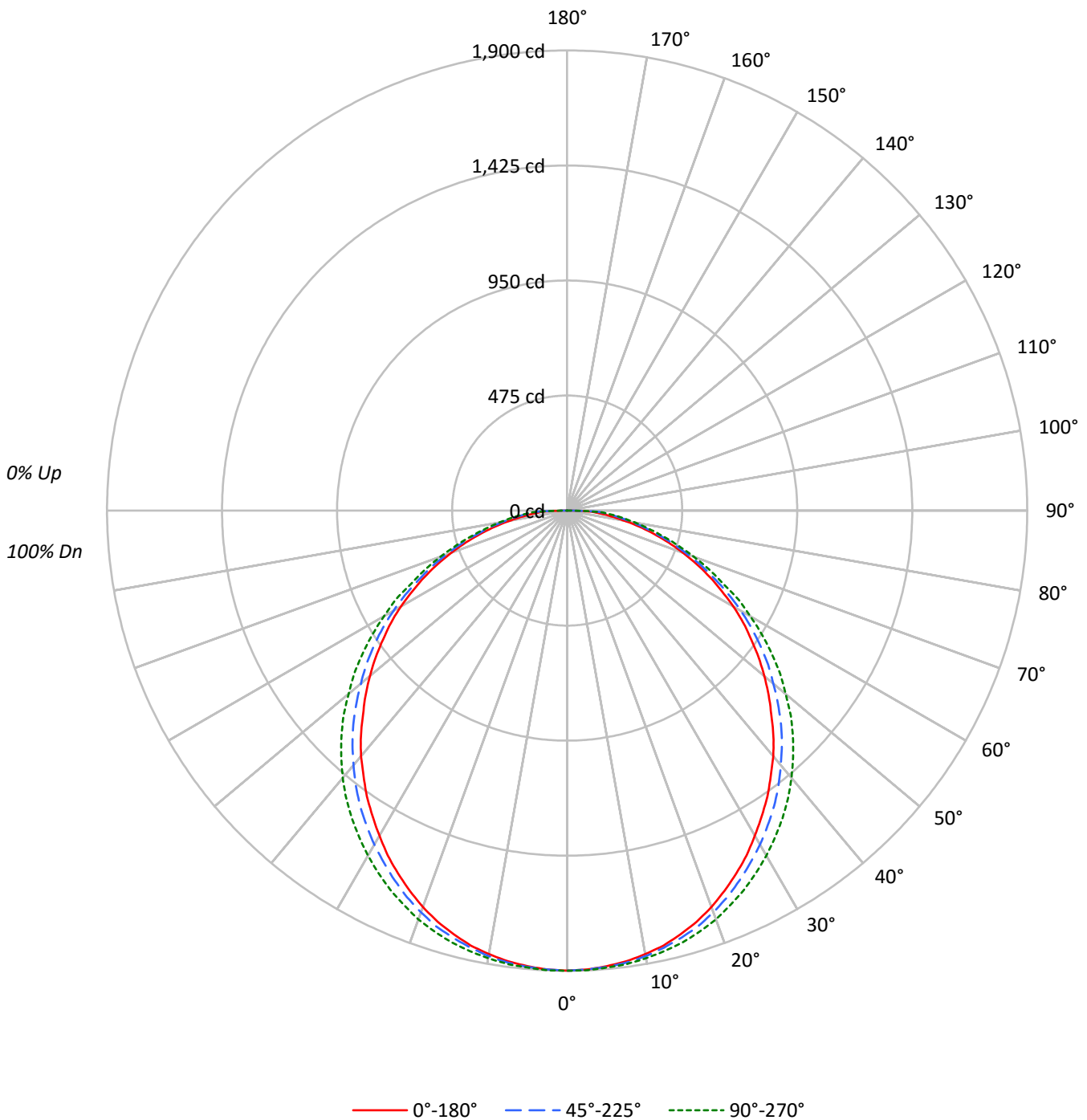
Lumens per Lamp: N/A
Luminaire Lumens: 5509.6 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.2
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	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°	2556	2556	2556
5°	2541	2534	2539
10°	2522	2513	2527
15°	2495	2483	2514
20°	2457	2448	2497
25°	2408	2402	2469
30°	2352	2355	2438
35°	2300	2305	2406
40°	2246	2244	2366
45°	2177	2184	2315
50°	2120	2105	2242
55°	2055	2029	2162
60°	1992	1932	2055
65°	1901	1810	1911
70°	1790	1678	1779
75°	1663	1534	1625
80°	1490	1390	1493
85°	1409	1320	1427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.3
10°-20°	515.1	9.3
20°-30°	777.3	14.1
30°-40°	933.0	16.9
40°-50°	965.6	17.5
50°-60°	874.7	15.9
60°-70°	673.9	12.2
70°-80°	417.0	7.6
80°-90°	173.2	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°	1472.1	26.7
0°-40°	2405.1	43.7
0°-60°	4245.4	77.1
0°-90°	5509.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5509.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1888	1888	1891	1891	1894	179
15°	1811	1814	1825	1837	1845	511
25°	1653	1659	1685	1713	1728	761
35°	1441	1453	1490	1530	1550	901
45°	1192	1209	1249	1295	1318	922
55°	928	943	974	1017	1032	831
65°	650	656	676	705	708	643
75°	370	378	392	410	410	391
85°	135	149	172	183	180	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.6	1899.6	1899.6	1899.6	1899.6
2.5°	1896.7	1896.7	1896.7	1896.7	1899.6
5°	1888.1	1888.1	1891.0	1891.0	1893.9
7.5°	1876.7	1876.7	1882.4	1882.4	1888.1
10°	1859.5	1862.4	1868.1	1870.9	1876.7
12.5°	1839.4	1839.4	1848.0	1856.6	1862.4
15°	1810.8	1813.6	1825.1	1836.6	1845.2
17.5°	1779.3	1782.1	1799.3	1810.8	1822.2
20°	1742.0	1744.9	1764.9	1782.1	1796.5
22.5°	1699.0	1704.8	1727.7	1750.6	1762.1
25°	1653.2	1658.9	1684.7	1713.4	1727.7
27.5°	1604.5	1613.1	1638.9	1670.4	1687.6
30°	1550.0	1561.5	1593.0	1627.4	1644.6
32.5°	1495.6	1507.1	1541.5	1581.6	1598.8
35°	1441.2	1452.6	1489.9	1530.0	1550.0
37.5°	1381.0	1392.5	1432.6	1475.6	1498.5
40°	1323.7	1335.2	1372.4	1421.1	1441.2
42.5°	1260.7	1272.1	1312.2	1358.1	1381.0
45°	1191.9	1209.1	1249.2	1295.1	1318.0
47.5°	1128.9	1143.2	1180.4	1229.2	1252.1
50°	1063.0	1077.3	1111.7	1160.4	1177.6
52.5°	997.1	1011.4	1045.8	1091.6	1108.8
55°	928.3	942.6	974.2	1017.1	1031.5
57.5°	862.4	873.9	902.5	942.6	954.1
60°	793.6	805.1	828.0	865.3	873.9
62.5°	719.2	727.7	753.5	787.9	799.4
65°	650.4	656.1	676.2	704.8	707.7
67.5°	578.8	584.5	604.5	624.6	633.2
70°	507.1	515.7	530.1	550.1	555.8
72.5°	438.4	447.0	461.3	478.5	481.3
75°	369.6	378.2	392.5	409.7	409.7
77.5°	303.7	312.3	329.5	343.8	343.8
80°	237.8	252.1	269.3	283.7	283.7
82.5°	183.4	194.8	217.8	229.2	229.2
85°	134.7	149.0	171.9	183.4	180.5
87.5°	97.4	111.7	131.8	140.4	137.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)