

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: P385365

Luminaire Tested: **24ID-50-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385365
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-L850-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

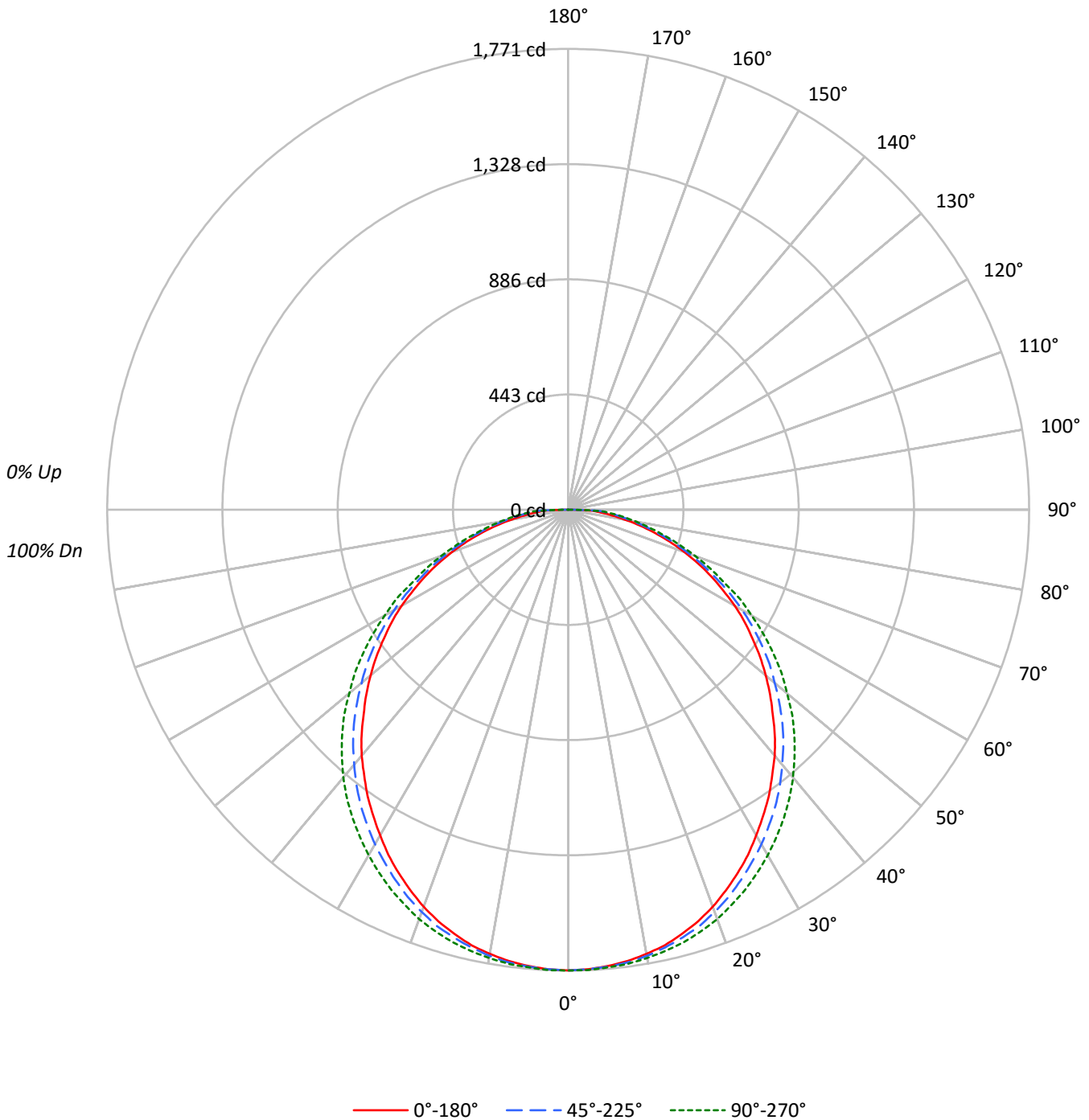
Lumens per Lamp: N/A
Luminaire Lumens: 5135.7 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 44
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°	2382	2382	2382
5°	2368	2362	2367
10°	2351	2343	2355
15°	2325	2315	2343
20°	2290	2282	2327
25°	2244	2239	2301
30°	2192	2195	2272
35°	2144	2148	2242
40°	2094	2092	2205
45°	2029	2036	2158
50°	1976	1962	2090
55°	1916	1891	2016
60°	1857	1801	1916
65°	1772	1687	1782
70°	1669	1564	1658
75°	1550	1430	1514
80°	1389	1295	1391
85°	1312	1230	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.3
10°-20°	480.1	9.3
20°-30°	724.6	14.1
30°-40°	869.7	16.9
40°-50°	900.0	17.5
50°-60°	815.4	15.9
60°-70°	628.2	12.2
70°-80°	388.7	7.6
80°-90°	161.5	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°	1372.2	26.7
0°-40°	2241.9	43.7
0°-60°	3957.3	77.1
0°-90°	5135.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5135.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1760	1760	1763	1763	1765	167
15°	1688	1691	1701	1712	1720	476
25°	1541	1546	1570	1597	1610	710
35°	1343	1354	1389	1426	1445	840
45°	1111	1127	1164	1207	1228	859
55°	865	879	908	948	962	775
65°	606	612	630	657	660	599
75°	344	352	366	382	382	365
85°	126	139	160	171	168	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1770.7	1770.7	1770.7	1770.7	1770.7
2.5°	1768.0	1768.0	1768.0	1768.0	1770.7
5°	1760.0	1760.0	1762.7	1762.7	1765.3
7.5°	1749.3	1749.3	1754.7	1754.7	1760.0
10°	1733.3	1736.0	1741.3	1744.0	1749.3
12.5°	1714.6	1714.6	1722.6	1730.6	1736.0
15°	1687.9	1690.6	1701.2	1711.9	1719.9
17.5°	1658.5	1661.2	1677.2	1687.9	1698.6
20°	1623.8	1626.5	1645.2	1661.2	1674.5
22.5°	1583.7	1589.1	1610.4	1631.8	1642.5
25°	1541.0	1546.3	1570.4	1597.1	1610.4
27.5°	1495.6	1503.6	1527.7	1557.0	1573.1
30°	1444.9	1455.5	1484.9	1517.0	1533.0
32.5°	1394.1	1404.8	1436.8	1474.2	1490.3
35°	1343.4	1354.1	1388.8	1426.2	1444.9
37.5°	1287.3	1298.0	1335.4	1375.4	1396.8
40°	1233.9	1244.6	1279.3	1324.7	1343.4
42.5°	1175.1	1185.8	1223.2	1265.9	1287.3
45°	1111.0	1127.0	1164.4	1207.2	1228.5
47.5°	1052.3	1065.6	1100.3	1145.7	1167.1
50°	990.8	1004.2	1036.2	1081.6	1097.7
52.5°	929.4	942.8	974.8	1017.5	1033.6
55°	865.3	878.7	908.0	948.1	961.5
57.5°	803.9	814.6	841.3	878.7	889.3
60°	739.8	750.5	771.8	806.6	814.6
62.5°	670.3	678.4	702.4	734.4	745.1
65°	606.3	611.6	630.3	657.0	659.7
67.5°	539.5	544.8	563.5	582.2	590.2
70°	472.7	480.7	494.1	512.8	518.1
72.5°	408.6	416.6	430.0	446.0	448.7
75°	344.5	352.5	365.9	381.9	381.9
77.5°	283.1	291.1	307.1	320.5	320.5
80°	221.7	235.0	251.0	264.4	264.4
82.5°	170.9	181.6	203.0	213.7	213.7
85°	125.5	138.9	160.2	170.9	168.3
87.5°	90.8	104.2	122.9	130.9	128.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)