

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: P385366

Luminaire Tested: **24ID-55-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385366
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-L830-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

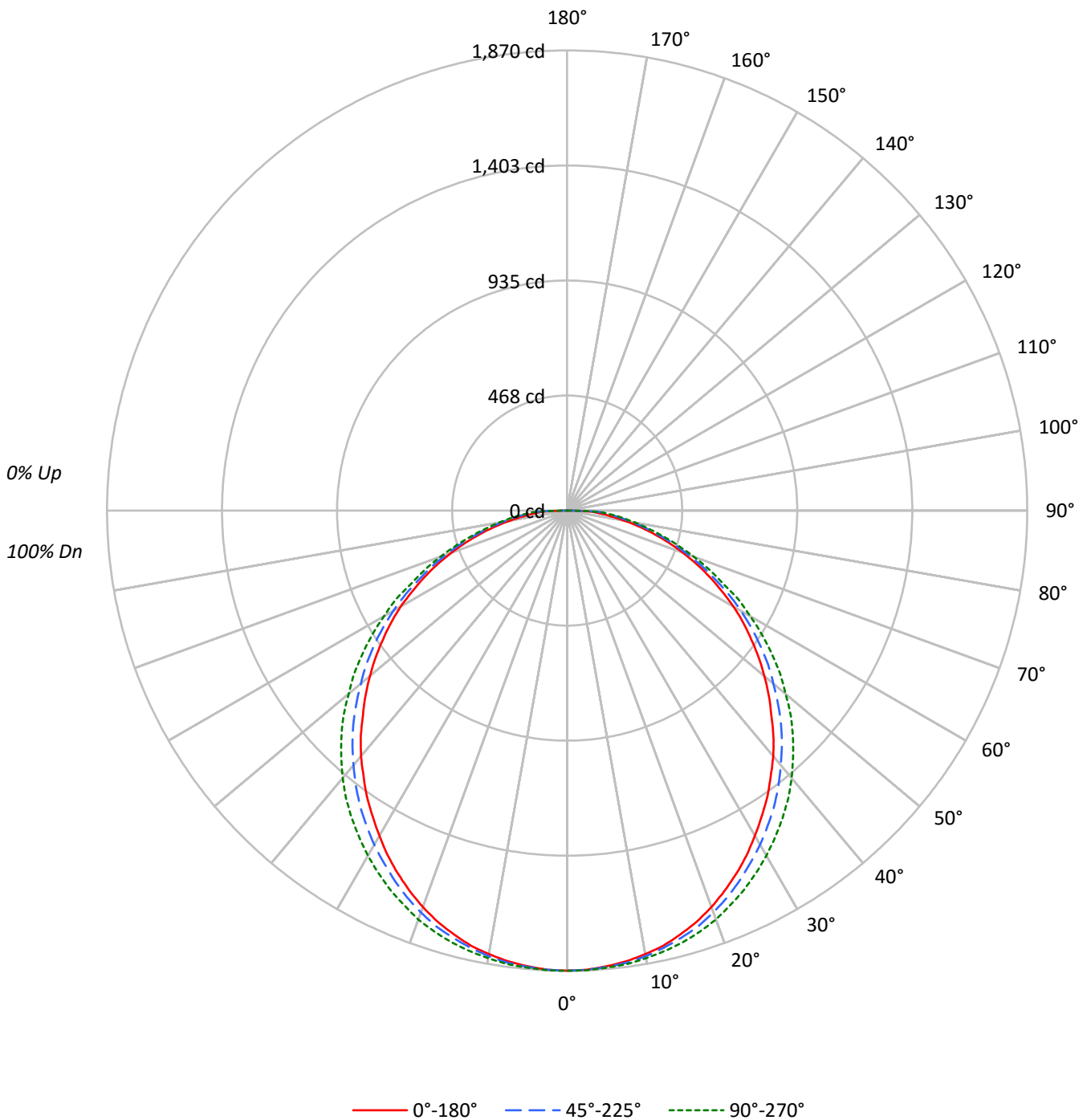
Lumens per Lamp: N/A
Luminaire Lumens: 5423.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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



TEST NUMBER: P385366
CATALOG NUMBER: 24ID-55-L830-CNV

Luminous Intensity Polar Plot





TEST NUMBER: P385366

CATALOG NUMBER: 24ID-55-L830-CNV

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°	2516	2516	2516
5°	2501	2495	2500
10°	2483	2474	2487
15°	2456	2445	2475
20°	2419	2410	2458
25°	2370	2365	2430
30°	2315	2318	2400
35°	2264	2269	2368
40°	2211	2209	2329
45°	2143	2150	2279
50°	2087	2072	2207
55°	2023	1997	2128
60°	1961	1902	2023
65°	1871	1781	1882
70°	1762	1652	1752
75°	1637	1510	1599
80°	1467	1368	1469
85°	1387	1299	1405



TEST NUMBER: P385366

CATALOG NUMBER: 24ID-55-L830-CNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	3.3
10°-20°	507.0	9.3
20°-30°	765.2	14.1
30°-40°	918.4	16.9
40°-50°	950.5	17.5
50°-60°	861.1	15.9
60°-70°	663.4	12.2
70°-80°	410.5	7.6
80°-90°	170.5	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°	1449.1	26.7
0°-40°	2367.6	43.7
0°-60°	4179.1	77.1
0°-90°	5423.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5423.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1859	1859	1862	1862	1864	177
15°	1782	1785	1797	1808	1816	503
25°	1627	1633	1658	1687	1701	750
35°	1419	1430	1467	1506	1526	887
45°	1173	1190	1230	1275	1297	907
55°	914	928	959	1001	1015	818
65°	640	646	666	694	697	633
75°	364	372	386	403	403	385
85°	133	147	169	180	178	143
90°	0	0	0	0	0	



TEST NUMBER: P385366

CATALOG NUMBER: 24ID-55-L830-CNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.9	1869.9	1869.9	1869.9	1869.9
2.5°	1867.1	1867.1	1867.1	1867.1	1869.9
5°	1858.6	1858.6	1861.5	1861.5	1864.3
7.5°	1847.3	1847.3	1853.0	1853.0	1858.6
10°	1830.4	1833.2	1838.9	1841.7	1847.3
12.5°	1810.7	1810.7	1819.1	1827.6	1833.2
15°	1782.5	1785.3	1796.6	1807.9	1816.3
17.5°	1751.5	1754.3	1771.2	1782.5	1793.8
20°	1714.8	1717.6	1737.4	1754.3	1768.4
22.5°	1672.5	1678.1	1700.7	1723.3	1734.5
25°	1627.4	1633.0	1658.4	1686.6	1700.7
27.5°	1579.4	1587.9	1613.3	1644.3	1661.2
30°	1525.8	1537.1	1568.1	1602.0	1618.9
32.5°	1472.2	1483.5	1517.4	1556.9	1573.8
35°	1418.7	1429.9	1466.6	1506.1	1525.8
37.5°	1359.4	1370.7	1410.2	1452.5	1475.1
40°	1303.0	1314.3	1351.0	1398.9	1418.7
42.5°	1241.0	1252.2	1291.7	1336.9	1359.4
45°	1173.3	1190.2	1229.7	1274.8	1297.4
47.5°	1111.2	1125.3	1162.0	1209.9	1232.5
50°	1046.4	1060.5	1094.3	1142.3	1159.2
52.5°	981.5	995.6	1029.4	1074.6	1091.5
55°	913.8	927.9	958.9	1001.2	1015.3
57.5°	848.9	860.2	888.4	927.9	939.2
60°	781.2	792.5	815.1	851.8	860.2
62.5°	707.9	716.4	741.8	775.6	786.9
65°	640.2	645.9	665.6	693.8	696.6
67.5°	569.7	575.4	595.1	614.8	623.3
70°	499.2	507.7	521.8	541.5	547.2
72.5°	431.5	440.0	454.1	471.0	473.8
75°	363.8	372.3	386.4	403.3	403.3
77.5°	299.0	307.4	324.3	338.4	338.4
80°	234.1	248.2	265.1	279.2	279.2
82.5°	180.5	191.8	214.3	225.6	225.6
85°	132.6	146.7	169.2	180.5	177.7
87.5°	95.9	110.0	129.7	138.2	135.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)