

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: P384018

Luminaire Tested: **24ID-50-L830-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-50-L830-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

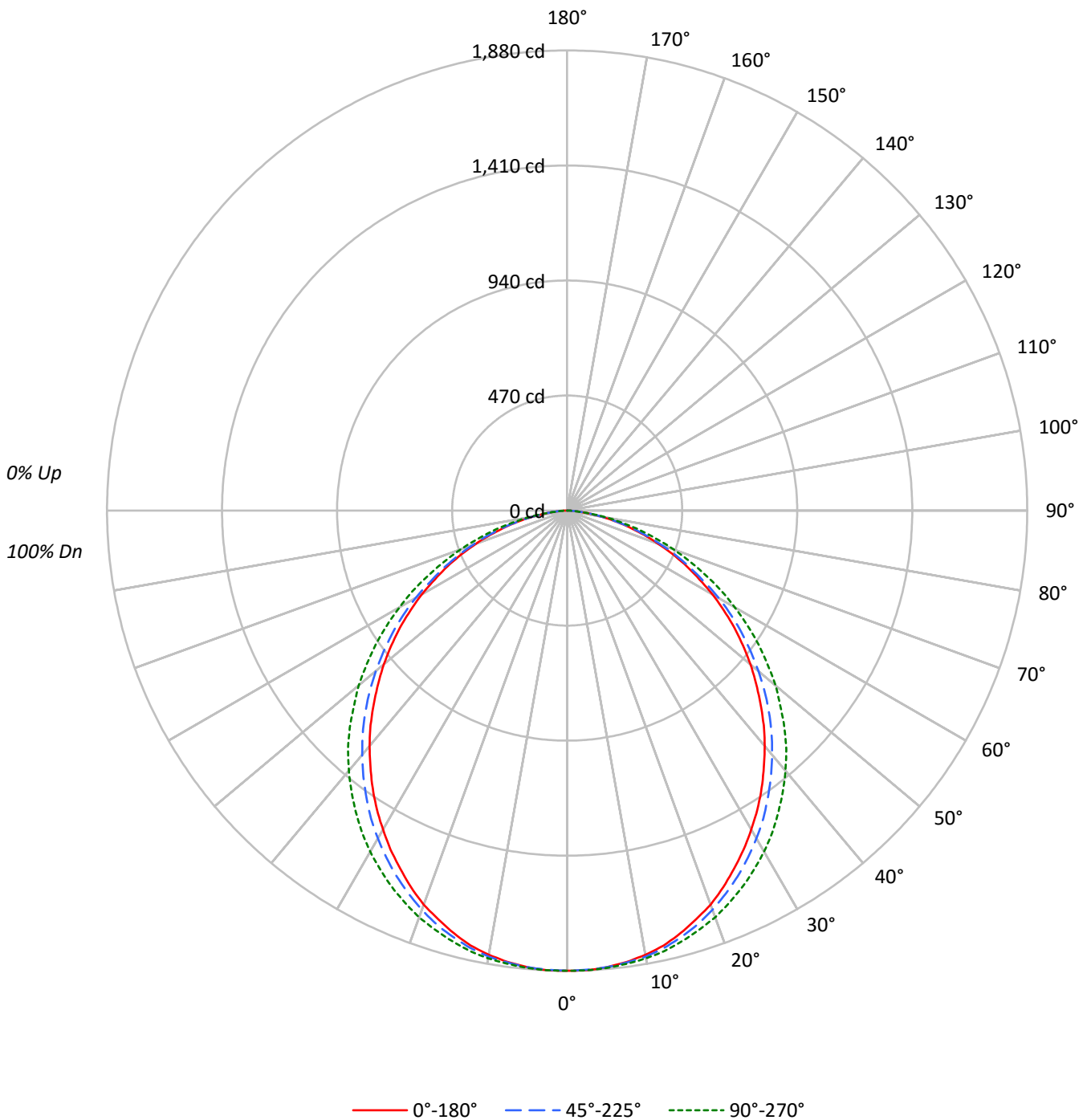
Lumens per Lamp: N/A
Luminaire Lumens: 4963.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2530	2530	2530
5°	2529	2529	2533
10°	2518	2528	2538
15°	2491	2511	2536
20°	2453	2485	2532
25°	2396	2448	2518
30°	2337	2403	2500
35°	2275	2349	2471
40°	2206	2289	2437
45°	2125	2219	2390
50°	2046	2134	2327
55°	1954	2042	2240
60°	1847	1927	2128
65°	1718	1774	1987
70°	1555	1614	1820
75°	1357	1409	1590
80°	1098	1117	1252
85°	653	729	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	3.6
10°-20°	508.7	10.2
20°-30°	760.9	15.3
30°-40°	899.0	18.1
40°-50°	907.2	18.3
50°-60°	787.8	15.9
60°-70°	564.9	11.4
70°-80°	294.3	5.9
80°-90°	62.1	1.3
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°	1447.6	29.2
0°-40°	2346.6	47.3
0°-60°	4041.7	81.4
0°-90°	4963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1873	1870	1873	1873	1875	178
15°	1788	1790	1803	1815	1820	504
25°	1614	1624	1649	1681	1696	744
35°	1385	1395	1430	1482	1504	866
45°	1117	1129	1166	1226	1256	862
55°	833	841	870	928	955	744
65°	540	537	557	599	624	534
75°	261	259	271	291	306	279
85°	42	47	47	42	40	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1880.0	1880.0	1880.0	1880.0	1880.0
2.5°	1880.0	1877.6	1877.6	1877.6	1880.0
5°	1872.6	1870.1	1872.6	1872.6	1875.1
7.5°	1860.2	1857.7	1862.6	1865.1	1867.6
10°	1842.7	1842.7	1850.2	1855.2	1857.7
12.5°	1820.4	1820.4	1830.3	1837.8	1842.7
15°	1788.0	1790.5	1803.0	1815.4	1820.4
17.5°	1750.7	1758.2	1773.1	1790.5	1795.5
20°	1713.4	1718.4	1735.8	1758.2	1768.1
22.5°	1666.2	1673.6	1693.5	1723.4	1733.3
25°	1614.0	1623.9	1648.8	1681.1	1696.0
27.5°	1561.7	1569.2	1599.0	1636.3	1653.7
30°	1504.5	1514.5	1546.8	1589.1	1609.0
32.5°	1447.3	1454.8	1492.1	1536.9	1559.2
35°	1385.2	1395.1	1429.9	1482.2	1504.5
37.5°	1320.5	1332.9	1367.8	1422.5	1447.3
40°	1255.9	1263.3	1303.1	1357.8	1387.7
42.5°	1188.7	1198.7	1236.0	1295.6	1325.5
45°	1116.6	1129.0	1166.3	1226.0	1255.9
47.5°	1047.0	1059.4	1094.2	1153.9	1181.2
50°	977.3	984.8	1019.6	1079.3	1111.6
52.5°	905.2	912.7	945.0	1002.2	1032.0
55°	833.1	840.6	870.4	927.6	954.9
57.5°	758.5	763.5	793.3	845.5	872.9
60°	686.4	688.9	716.2	763.5	790.8
62.5°	609.3	611.8	631.7	686.4	711.2
65°	539.6	537.2	557.1	599.3	624.2
67.5°	467.5	467.5	484.9	522.2	542.1
70°	395.4	395.4	410.3	442.7	462.6
72.5°	328.3	328.3	340.7	365.6	380.5
75°	261.1	258.6	271.1	291.0	305.9
77.5°	198.9	198.9	203.9	221.3	231.3
80°	141.7	141.7	144.2	154.2	161.6
82.5°	89.5	89.5	89.5	94.5	97.0
85°	42.3	47.2	47.2	42.3	39.8
87.5°	19.9	19.9	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)