

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: P384190

Luminaire Tested: **24ID-55-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-55-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

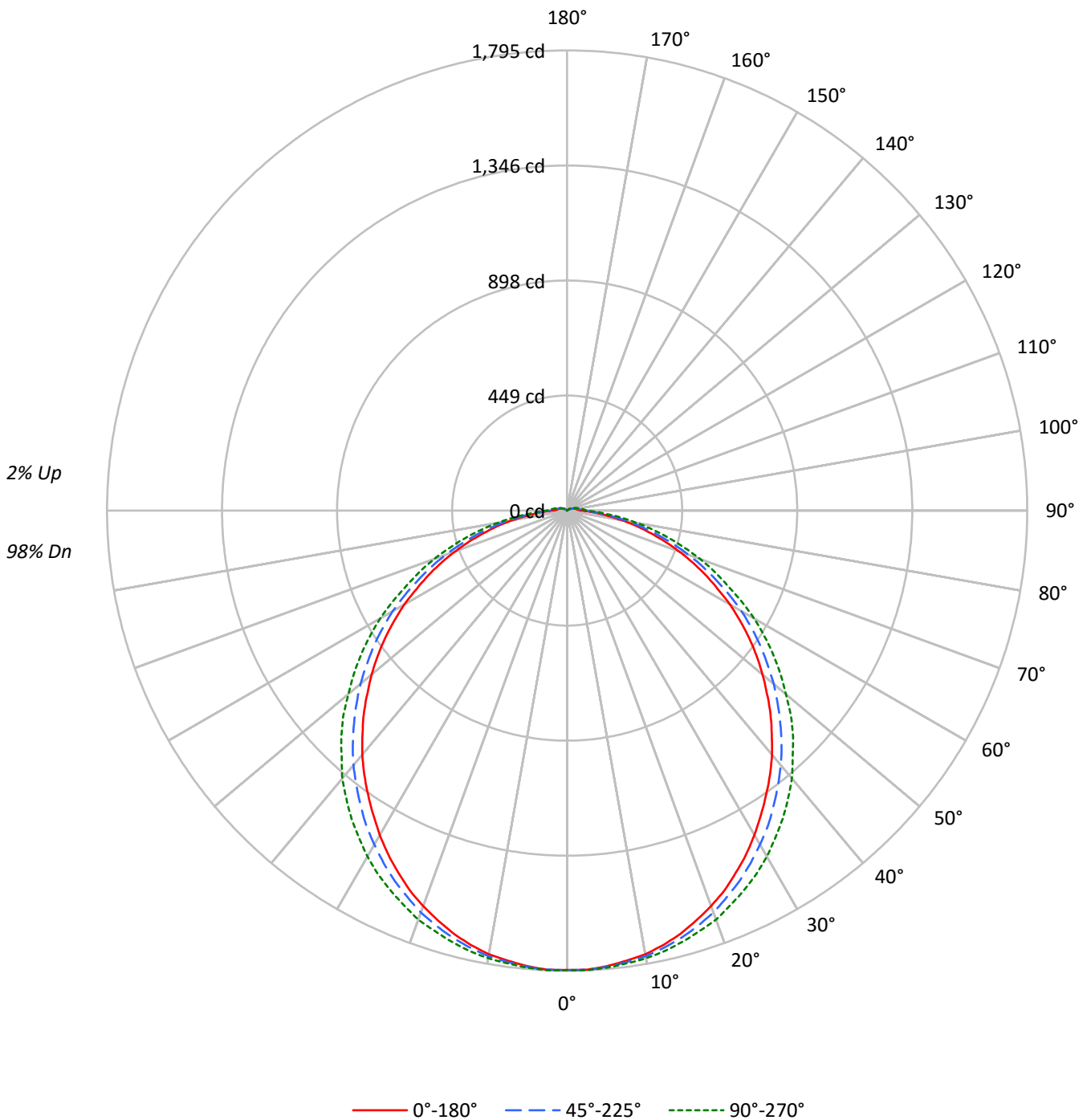
Lumens per Lamp: N/A
Luminaire Lumens: 5307.8 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2411	2411	2411
5°	2405	2404	2408
10°	2392	2393	2405
15°	2367	2375	2398
20°	2333	2351	2395
25°	2291	2317	2379
30°	2243	2279	2364
35°	2191	2238	2341
40°	2146	2197	2315
45°	2092	2143	2276
50°	2034	2092	2222
55°	1974	2031	2175
60°	1908	1964	2114
65°	1821	1862	2013
70°	1722	1765	1947
75°	1610	1633	1840
80°	1492	1484	1721
85°	1443	1380	1633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	3.2
10°-20°	486.5	9.2
20°-30°	734.6	13.8
30°-40°	880.1	16.6
40°-50°	910.0	17.1
50°-60°	824.0	15.5
60°-70°	637.7	12.0
70°-80°	391.7	7.4
80°-90°	155.6	2.9
90°-100°	56.8	1.1
100°-110°	34.9	0.7
110°-120°	17.9	0.3
120°-130°	7.7	0.1
130°-140°	0.5	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°	1390.8	26.2
0°-40°	2271.0	42.8
0°-60°	4005.0	75.5
0°-90°	5190.0	97.8
90°-120°	109.6	2.1
90°-150°	117.8	2.2
90°-180°	118.0	2.2
0°-180°	5307.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1784	1784	1787	1787	1790	169
15°	1709	1711	1725	1736	1741	482
25°	1558	1569	1593	1620	1633	718
35°	1354	1370	1405	1442	1467	847
45°	1122	1136	1176	1224	1246	865
55°	866	885	920	961	982	774
65°	597	611	640	673	689	591
75°	334	350	366	390	409	356
85°	116	124	134	148	156	115
90°	54	62	67	75	81	32
95°	40	46	51	56	62	32
105°	30	30	32	35	38	31
115°	19	16	16	19	22	19
125°	11	8	5	8	11	10
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792.2	1792.2	1792.2	1792.2	1792.2
2.5°	1792.2	1789.5	1792.2	1792.2	1794.8
5°	1784.1	1784.1	1786.8	1786.8	1789.5
7.5°	1770.6	1770.6	1776.0	1778.7	1781.4
10°	1757.2	1757.2	1765.2	1767.9	1773.3
12.5°	1735.6	1738.3	1746.4	1754.5	1759.9
15°	1708.7	1711.4	1724.9	1735.6	1741.0
17.5°	1676.4	1681.8	1698.0	1714.1	1719.5
20°	1641.5	1649.5	1668.4	1687.2	1698.0
22.5°	1603.8	1609.2	1630.7	1654.9	1665.7
25°	1558.0	1568.8	1593.0	1619.9	1633.4
27.5°	1512.3	1523.1	1550.0	1582.3	1598.4
30°	1461.2	1471.9	1504.2	1539.2	1558.0
32.5°	1407.4	1420.8	1458.5	1493.5	1512.3
35°	1353.5	1369.7	1404.7	1442.3	1466.6
37.5°	1299.7	1313.2	1350.8	1391.2	1415.4
40°	1243.2	1256.7	1297.0	1337.4	1364.3
42.5°	1181.3	1197.5	1237.8	1280.9	1302.4
45°	1122.1	1135.6	1175.9	1224.4	1245.9
47.5°	1057.5	1076.4	1114.0	1159.8	1184.0
50°	995.6	1011.8	1052.2	1095.2	1114.0
52.5°	931.1	947.2	984.9	1027.9	1049.5
55°	866.5	885.3	920.3	960.7	982.2
57.5°	799.2	818.0	853.0	888.0	912.2
60°	734.6	753.5	785.8	820.7	842.3
62.5°	662.0	678.1	713.1	750.8	766.9
65°	597.4	610.8	640.4	672.7	688.9
67.5°	530.1	546.3	573.2	602.8	621.6
70°	462.8	481.7	503.2	530.1	551.6
72.5°	398.3	414.4	433.2	460.1	479.0
75°	333.7	349.8	366.0	390.2	409.0
77.5°	277.2	285.2	301.4	322.9	341.7
80°	215.3	226.0	239.5	261.0	274.5
82.5°	161.5	172.2	183.0	199.1	212.6
85°	115.7	123.8	134.5	148.0	156.1
87.5°	78.0	86.1	94.2	104.9	113.0
90°	53.8	61.9	67.3	75.3	80.7
92.5°	45.7	51.1	56.5	61.9	67.3
95°	40.4	45.7	51.1	56.5	61.9
97.5°	37.7	40.4	45.7	51.1	53.8
100°	35.0	37.7	40.4	45.7	48.4
102.5°	32.3	32.3	37.7	40.4	43.1
105°	29.6	29.6	32.3	35.0	37.7
107.5°	26.9	26.9	29.6	29.6	35.0
110°	24.2	21.5	24.2	24.2	29.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.5	18.8	21.5	21.5	24.2
115°	18.8	16.1	16.1	18.8	21.5
117.5°	16.1	13.5	13.5	13.5	18.8
120°	16.1	13.5	10.8	10.8	16.1
122.5°	13.5	10.8	8.1	10.8	13.5
125°	10.8	8.1	5.4	8.1	10.8
127.5°	8.1	8.1	2.7	5.4	8.1
130°	8.1	5.4	2.7	5.4	5.4
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)