

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: P384191

Luminaire Tested: **24ID-55-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384191
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-L835-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

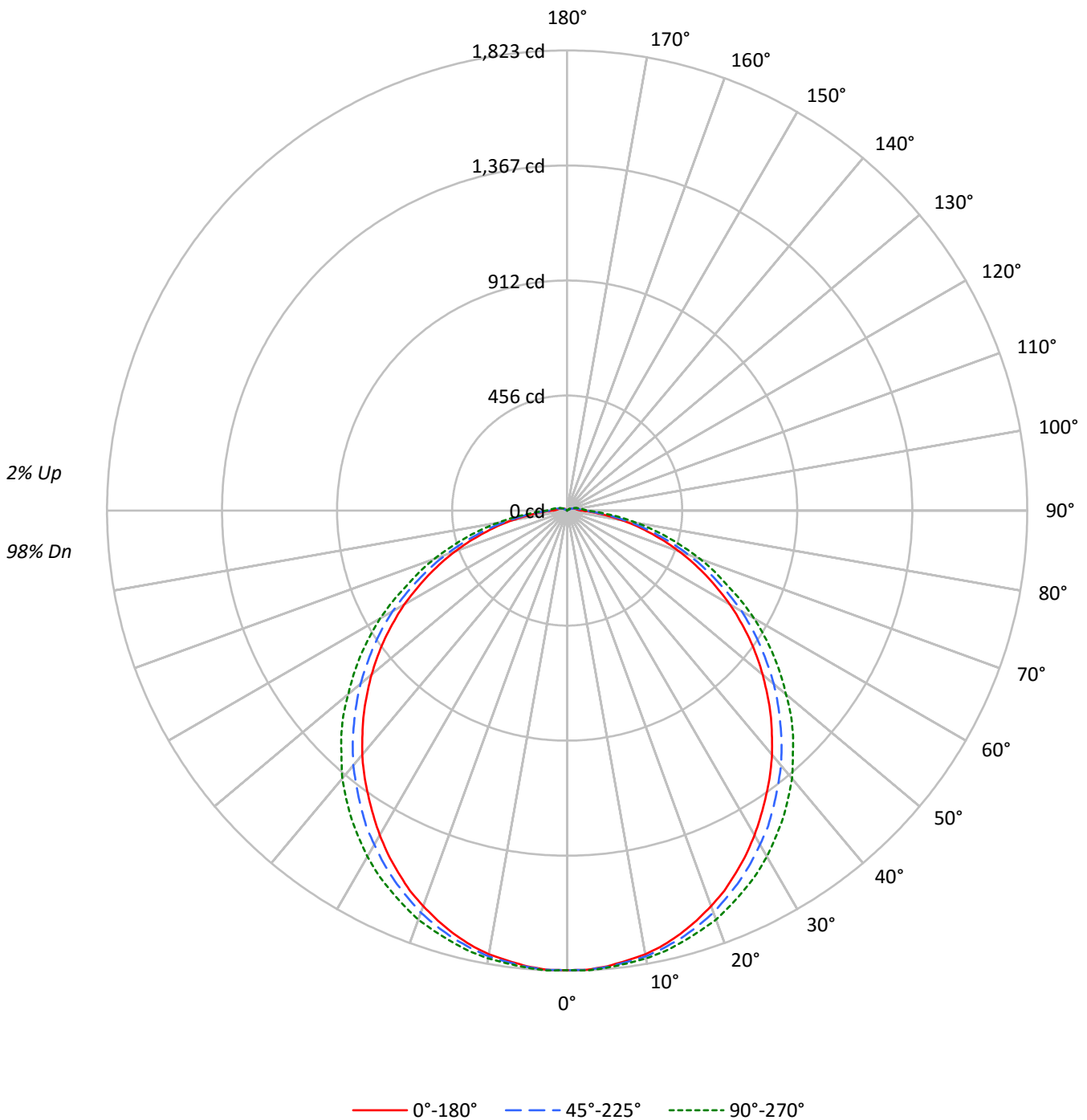
Lumens per Lamp: N/A
Luminaire Lumens: 5392.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

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°	2450	2450	2450
5°	2443	2442	2446
10°	2430	2431	2443
15°	2404	2412	2436
20°	2370	2388	2433
25°	2327	2354	2416
30°	2279	2315	2401
35°	2226	2273	2378
40°	2180	2232	2352
45°	2125	2177	2312
50°	2066	2125	2257
55°	2005	2063	2209
60°	1938	1995	2147
65°	1850	1892	2045
70°	1750	1793	1978
75°	1635	1659	1869
80°	1516	1507	1747
85°	1465	1402	1658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	3.2
10°-20°	494.3	9.2
20°-30°	746.2	13.8
30°-40°	894.1	16.6
40°-50°	924.4	17.1
50°-60°	837.1	15.5
60°-70°	647.8	12.0
70°-80°	397.9	7.4
80°-90°	158.1	2.9
90°-100°	57.7	1.1
100°-110°	35.4	0.7
110°-120°	18.2	0.3
120°-130°	7.8	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°	1412.9	26.2
0°-40°	2307.0	42.8
0°-60°	4068.5	75.5
0°-90°	5272.4	97.8
90°-120°	111.4	2.1
90°-150°	119.7	2.2
90°-180°	120.0	2.2
0°-180°	5392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1812	1812	1815	1815	1818	172
15°	1736	1739	1752	1763	1769	489
25°	1583	1594	1618	1646	1659	729
35°	1375	1391	1427	1465	1490	861
45°	1140	1154	1195	1244	1266	879
55°	880	899	935	976	998	786
65°	607	620	651	683	700	600
75°	339	355	372	396	416	361
85°	118	126	137	150	158	117
90°	55	63	68	76	82	32
95°	41	46	52	57	63	33
105°	30	30	33	36	38	32
115°	19	16	16	19	22	19
125°	11	8	6	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°	1820.6	1820.6	1820.6	1820.6	1820.6
2.5°	1820.6	1817.9	1820.6	1820.6	1823.3
5°	1812.4	1812.4	1815.1	1815.1	1817.9
7.5°	1798.7	1798.7	1804.2	1806.9	1809.7
10°	1785.1	1785.1	1793.3	1796.0	1801.5
12.5°	1763.2	1765.9	1774.1	1782.3	1787.8
15°	1735.8	1738.6	1752.2	1763.2	1768.6
17.5°	1703.0	1708.5	1724.9	1741.3	1746.8
20°	1667.5	1675.7	1694.8	1714.0	1724.9
22.5°	1629.2	1634.7	1656.6	1681.2	1692.1
25°	1582.8	1593.7	1618.3	1645.6	1659.3
27.5°	1536.3	1547.2	1574.6	1607.4	1623.8
30°	1484.4	1495.3	1528.1	1563.6	1582.8
32.5°	1429.7	1443.3	1481.6	1517.2	1536.3
35°	1375.0	1391.4	1426.9	1465.2	1489.8
37.5°	1320.3	1334.0	1372.3	1413.3	1437.9
40°	1262.9	1276.6	1317.6	1358.6	1385.9
42.5°	1200.1	1216.5	1257.5	1301.2	1323.1
45°	1139.9	1153.6	1194.6	1243.8	1265.7
47.5°	1074.3	1093.4	1131.7	1178.2	1202.8
50°	1011.4	1027.8	1068.8	1112.6	1131.7
52.5°	945.8	962.2	1000.5	1044.2	1066.1
55°	880.2	899.4	934.9	975.9	997.8
57.5°	811.9	831.0	866.6	902.1	926.7
60°	746.3	765.4	798.2	833.8	855.6
62.5°	672.5	688.9	724.4	762.7	779.1
65°	606.9	620.5	650.6	683.4	699.8
67.5°	538.5	554.9	582.3	612.3	631.5
70°	470.2	489.3	511.2	538.5	560.4
72.5°	404.6	421.0	440.1	467.4	486.6
75°	339.0	355.4	371.8	396.4	415.5
77.5°	281.6	289.8	306.2	328.0	347.2
80°	218.7	229.6	243.3	265.2	278.8
82.5°	164.0	175.0	185.9	202.3	216.0
85°	117.5	125.7	136.7	150.3	158.5
87.5°	79.3	87.5	95.7	106.6	114.8
90°	54.7	62.9	68.3	76.5	82.0
92.5°	46.5	51.9	57.4	62.9	68.3
95°	41.0	46.5	51.9	57.4	62.9
97.5°	38.3	41.0	46.5	51.9	54.7
100°	35.5	38.3	41.0	46.5	49.2
102.5°	32.8	32.8	38.3	41.0	43.7
105°	30.1	30.1	32.8	35.5	38.3
107.5°	27.3	27.3	30.1	30.1	35.5
110°	24.6	21.9	24.6	24.6	30.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.9	19.1	21.9	21.9	24.6
115°	19.1	16.4	16.4	19.1	21.9
117.5°	16.4	13.7	13.7	13.7	19.1
120°	16.4	13.7	10.9	10.9	16.4
122.5°	13.7	10.9	8.2	10.9	13.7
125°	10.9	8.2	5.5	8.2	10.9
127.5°	8.2	8.2	2.7	5.5	8.2
130°	8.2	5.5	2.7	5.5	5.5
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)