

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: P384368

Luminaire Tested: **24ID-65-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-65-L840-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

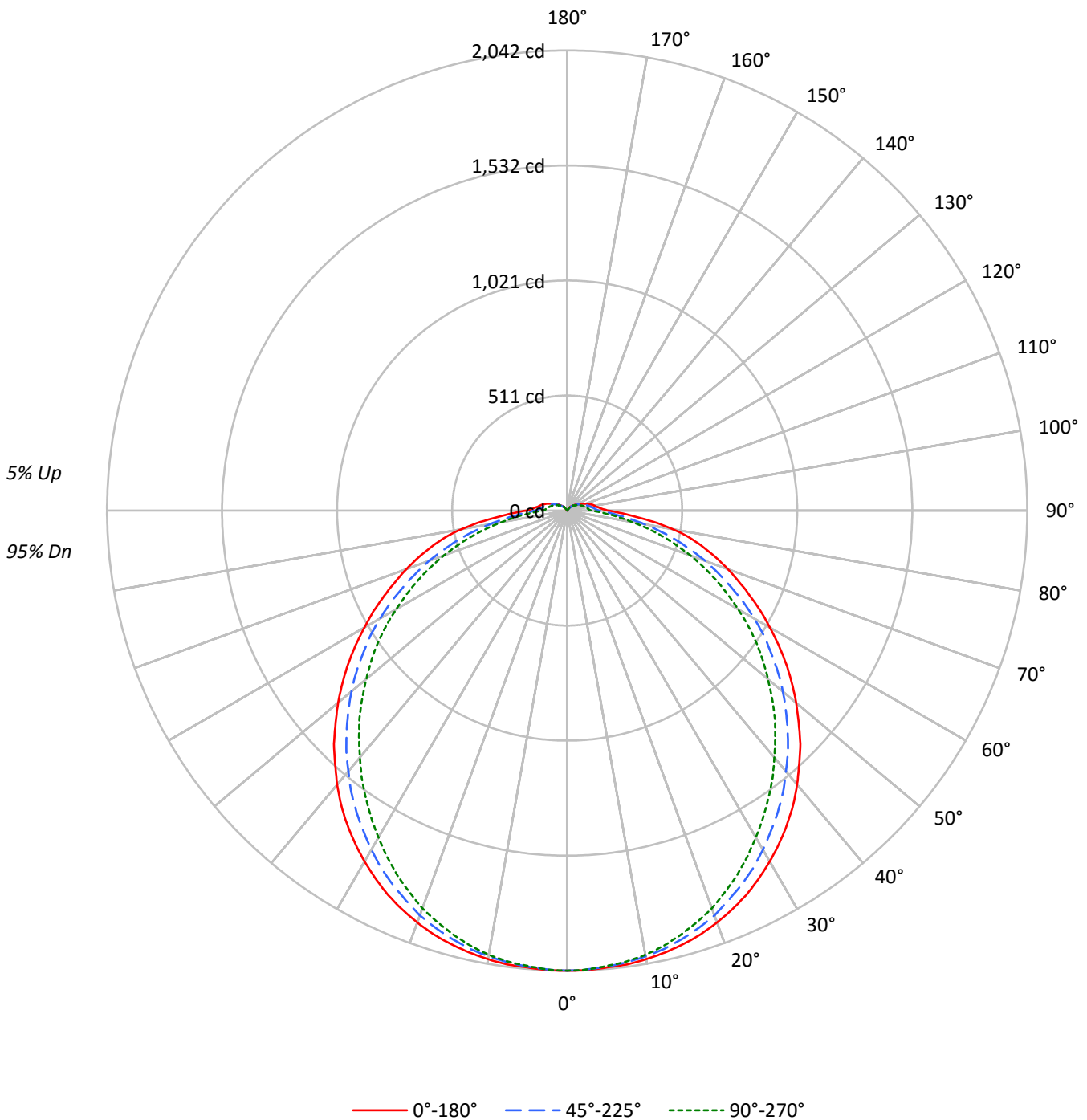
Lumens per Lamp: N/A
Luminaire Lumens: 6622.9 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 63.6
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2747	2747	2747
5°	2739	2723	2720
10°	2742	2702	2695
15°	2744	2678	2655
20°	2743	2652	2610
25°	2740	2611	2550
30°	2728	2569	2482
35°	2715	2523	2417
40°	2694	2470	2348
45°	2674	2419	2289
50°	2646	2367	2214
55°	2627	2304	2151
60°	2609	2238	2059
65°	2618	2147	1968
70°	2678	2063	1861
75°	2812	1947	1723
80°	2995	1794	1547
85°	3146	1694	1427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	2.9
10°-20°	555.7	8.4
20°-30°	844.1	12.7
30°-40°	1019.6	15.4
40°-50°	1067.1	16.1
50°-60°	990.2	15.0
60°-70°	802.0	12.1
70°-80°	541.2	8.2
80°-90°	261.5	3.9
90°-100°	131.6	2.0
100°-110°	95.6	1.4
110°-120°	63.9	1.0
120°-130°	37.0	0.6
130°-140°	18.7	0.3
140°-150°	1.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1593.1	24.1
0°-40°	2612.6	39.4
0°-60°	4669.9	70.5
0°-90°	6274.7	94.7
90°-120°	291.1	4.4
90°-150°	348.2	5.3
90°-180°	348.0	5.3
0°-180°	6622.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2035	2032	2032	2029	2029	194
15°	1992	1982	1968	1955	1948	563
25°	1882	1865	1831	1798	1785	867
35°	1701	1678	1631	1581	1557	1064
45°	1464	1437	1384	1327	1303	1128
55°	1186	1160	1106	1053	1026	1060
65°	896	862	802	759	729	889
75°	625	562	498	461	434	658
85°	301	261	221	200	180	284
90°	180	164	140	127	107	103
95°	144	134	120	107	94	113
105°	107	100	90	80	74	114
115°	74	67	67	57	57	73
125°	47	40	43	37	40	41
135°	27	23	23	23	27	21
145°	0	0	0	0	0	2
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°	2042.0	2042.0	2042.0	2042.0	2042.0
2.5°	2042.0	2038.6	2038.6	2038.6	2038.6
5°	2035.3	2031.9	2031.9	2028.6	2028.6
7.5°	2031.9	2025.3	2021.9	2018.6	2018.6
10°	2021.9	2015.2	2008.5	2001.9	2001.9
12.5°	2008.5	2001.9	1991.8	1978.5	1978.5
15°	1991.8	1981.8	1968.4	1955.1	1948.4
17.5°	1971.8	1961.8	1941.7	1921.7	1915.0
20°	1945.0	1931.7	1911.6	1884.9	1878.2
22.5°	1915.0	1901.6	1871.5	1844.8	1831.4
25°	1881.5	1864.8	1831.4	1798.0	1784.6
27.5°	1841.4	1824.7	1788.0	1747.9	1731.2
30°	1798.0	1777.9	1737.8	1694.4	1674.3
32.5°	1751.2	1727.8	1684.4	1637.6	1617.5
35°	1701.1	1677.7	1630.9	1580.8	1557.4
37.5°	1647.6	1624.2	1574.1	1520.6	1497.2
40°	1587.5	1564.1	1510.6	1457.1	1430.4
42.5°	1524.0	1503.9	1450.4	1393.6	1366.9
45°	1463.8	1437.1	1383.6	1326.8	1303.4
47.5°	1393.6	1373.6	1316.7	1259.9	1233.2
50°	1326.8	1303.4	1249.9	1193.1	1163.0
52.5°	1256.6	1236.5	1179.7	1122.9	1096.2
55°	1186.4	1159.7	1106.2	1052.7	1026.0
57.5°	1112.9	1089.5	1036.0	985.9	952.5
60°	1039.4	1016.0	959.2	912.4	875.6
62.5°	969.2	942.4	882.3	832.2	802.1
65°	895.7	862.2	802.1	758.6	728.6
67.5°	825.5	785.4	725.2	685.1	655.0
70°	758.6	711.8	651.7	611.6	581.5
72.5°	691.8	635.0	571.5	534.7	508.0
75°	625.0	561.5	498.0	461.2	434.5
77.5°	558.1	484.6	421.1	391.0	364.3
80°	477.9	407.7	347.6	320.8	294.1
82.5°	387.7	330.9	280.7	254.0	233.9
85°	300.8	260.7	220.6	200.5	180.5
87.5°	233.9	203.9	173.8	157.1	140.4
90°	180.5	163.8	140.4	127.0	106.9
92.5°	157.1	143.7	127.0	113.6	96.9
95°	143.7	133.7	120.3	106.9	93.6
97.5°	130.3	123.7	110.3	100.3	86.9
100°	123.7	113.6	103.6	93.6	83.6
102.5°	117.0	106.9	96.9	86.9	80.2
105°	106.9	100.3	90.2	80.2	73.5
107.5°	100.3	90.2	83.6	73.5	70.2
110°	90.2	83.6	76.9	70.2	66.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.2	76.9	70.2	63.5	60.2
115°	73.5	66.8	66.8	56.8	56.8
117.5°	66.8	60.2	60.2	53.5	53.5
120°	56.8	53.5	53.5	46.8	46.8
122.5°	50.1	46.8	46.8	43.4	43.4
125°	46.8	40.1	43.4	36.8	40.1
127.5°	40.1	36.8	36.8	33.4	36.8
130°	33.4	30.1	30.1	30.1	33.4
132.5°	30.1	26.7	26.7	26.7	30.1
135°	26.7	23.4	23.4	23.4	26.7
137.5°	23.4	20.1	16.7	20.1	23.4
140°	20.1	16.7	13.4	16.7	20.1
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)