

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: P384364

Luminaire Tested: **24ID-60-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384364
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-60-L840-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

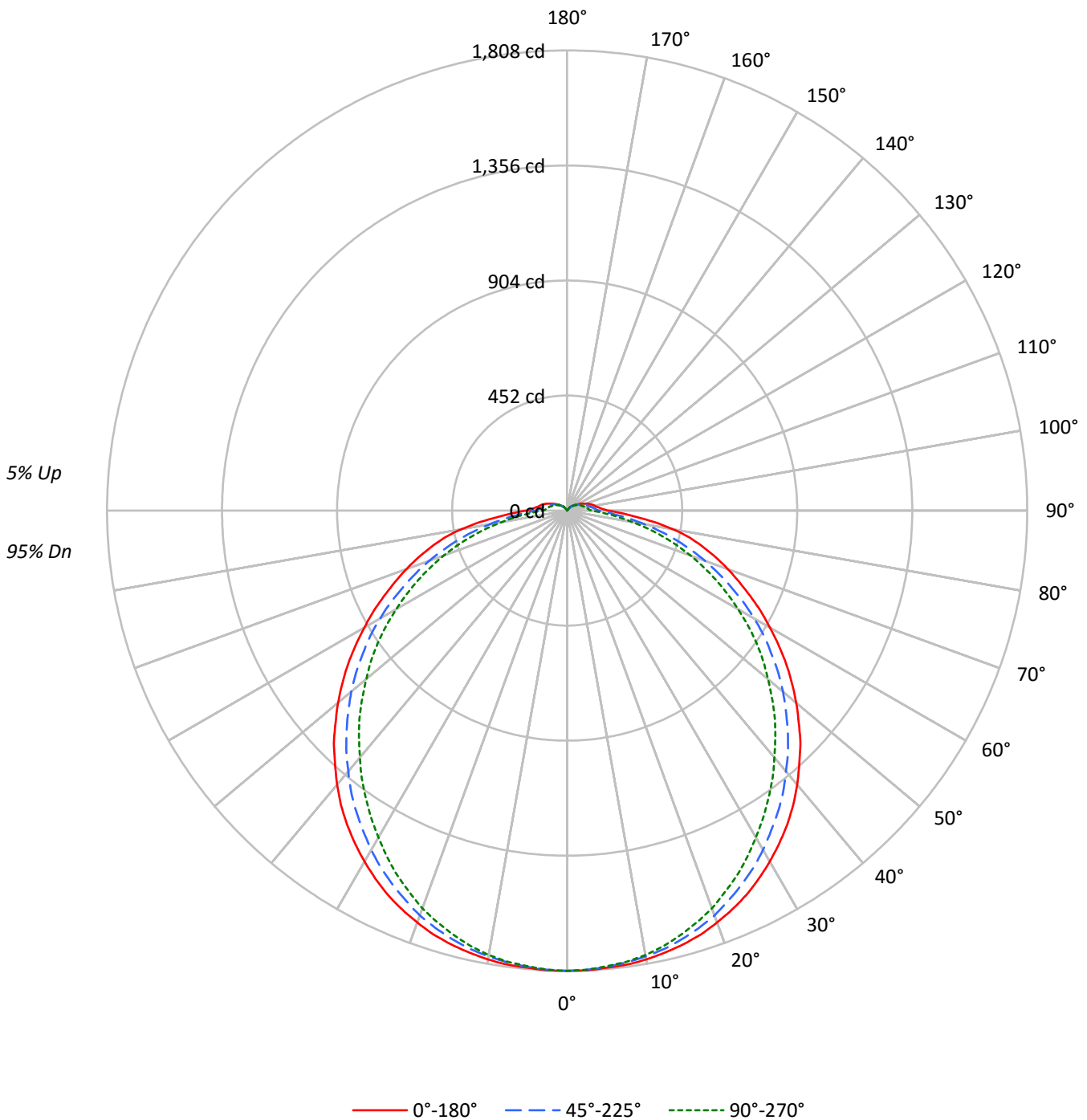
Lumens per Lamp: N/A
Luminaire Lumens: 5865.6 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 54.6
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°	2433	2433	2433
5°	2426	2412	2409
10°	2429	2393	2387
15°	2430	2372	2351
20°	2430	2349	2312
25°	2427	2313	2259
30°	2416	2275	2198
35°	2404	2234	2141
40°	2386	2188	2080
45°	2368	2142	2027
50°	2343	2096	1961
55°	2327	2041	1905
60°	2310	1982	1824
65°	2318	1901	1743
70°	2372	1827	1649
75°	2490	1724	1526
80°	2653	1589	1371
85°	2786	1501	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	2.9
10°-20°	492.2	8.4
20°-30°	747.6	12.7
30°-40°	903.0	15.4
40°-50°	945.1	16.1
50°-60°	877.0	15.0
60°-70°	710.3	12.1
70°-80°	479.4	8.2
80°-90°	231.6	3.9
90°-100°	116.5	2.0
100°-110°	84.7	1.4
110°-120°	56.6	1.0
120°-130°	32.8	0.6
130°-140°	16.5	0.3
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1410.9	24.1
0°-40°	2313.9	39.4
0°-60°	4135.9	70.5
0°-90°	5557.2	94.7
90°-120°	257.8	4.4
90°-150°	308.4	5.3
90°-180°	308.0	5.3
0°-180°	5865.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1803	1800	1800	1797	1797	172
15°	1764	1755	1743	1732	1726	498
25°	1666	1652	1622	1592	1581	768
35°	1507	1486	1444	1400	1379	943
45°	1296	1273	1225	1175	1154	999
55°	1051	1027	980	932	909	939
65°	793	764	710	672	645	787
75°	554	497	441	408	385	583
85°	266	231	195	178	160	252
90°	160	145	124	112	95	91
95°	127	118	107	95	83	100
105°	95	89	80	71	65	101
115°	65	59	59	50	50	65
125°	41	36	38	33	36	36
135°	24	21	21	21	24	18
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°	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1808.5	1805.5	1805.5	1805.5	1805.5
5°	1802.6	1799.6	1799.6	1796.6	1796.6
7.5°	1799.6	1793.7	1790.7	1787.8	1787.8
10°	1790.7	1784.8	1778.9	1773.0	1773.0
12.5°	1778.9	1773.0	1764.1	1752.2	1752.2
15°	1764.1	1755.2	1743.4	1731.5	1725.6
17.5°	1746.3	1737.4	1719.7	1701.9	1696.0
20°	1722.6	1710.8	1693.0	1669.4	1663.4
22.5°	1696.0	1684.2	1657.5	1633.8	1622.0
25°	1666.4	1651.6	1622.0	1592.4	1580.6
27.5°	1630.9	1616.1	1583.5	1548.0	1533.2
30°	1592.4	1574.6	1539.1	1500.6	1482.9
32.5°	1551.0	1530.2	1491.8	1450.3	1432.6
35°	1506.6	1485.8	1444.4	1400.0	1379.3
37.5°	1459.2	1438.5	1394.1	1346.7	1326.0
40°	1405.9	1385.2	1337.9	1290.5	1266.8
42.5°	1349.7	1331.9	1284.6	1234.3	1210.6
45°	1296.4	1272.7	1225.4	1175.1	1154.3
47.5°	1234.3	1216.5	1166.2	1115.9	1092.2
50°	1175.1	1154.3	1107.0	1056.7	1030.0
52.5°	1112.9	1095.1	1044.8	994.5	970.8
55°	1050.8	1027.1	979.7	932.4	908.7
57.5°	985.6	964.9	917.6	873.2	843.6
60°	920.5	899.8	849.5	808.0	775.5
62.5°	858.4	834.7	781.4	737.0	710.4
65°	793.2	763.6	710.4	671.9	645.2
67.5°	731.1	695.6	642.3	606.8	580.1
70°	671.9	630.5	577.2	541.7	515.0
72.5°	612.7	562.4	506.1	473.6	449.9
75°	553.5	497.3	441.0	408.5	384.8
77.5°	494.3	429.2	372.9	346.3	322.6
80°	423.3	361.1	307.8	284.1	260.5
82.5°	343.3	293.0	248.6	224.9	207.2
85°	266.4	230.9	195.4	177.6	159.8
87.5°	207.2	180.6	153.9	139.1	124.3
90°	159.8	145.0	124.3	112.5	94.7
92.5°	139.1	127.3	112.5	100.6	85.8
95°	127.3	118.4	106.6	94.7	82.9
97.5°	115.4	109.5	97.7	88.8	77.0
100°	109.5	100.6	91.8	82.9	74.0
102.5°	103.6	94.7	85.8	77.0	71.0
105°	94.7	88.8	79.9	71.0	65.1
107.5°	88.8	79.9	74.0	65.1	62.2
110°	79.9	74.0	68.1	62.2	59.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.0	68.1	62.2	56.2	53.3
115°	65.1	59.2	59.2	50.3	50.3
117.5°	59.2	53.3	53.3	47.4	47.4
120°	50.3	47.4	47.4	41.4	41.4
122.5°	44.4	41.4	41.4	38.5	38.5
125°	41.4	35.5	38.5	32.6	35.5
127.5°	35.5	32.6	32.6	29.6	32.6
130°	29.6	26.6	26.6	26.6	29.6
132.5°	26.6	23.7	23.7	23.7	26.6
135°	23.7	20.7	20.7	20.7	23.7
137.5°	20.7	17.8	14.8	17.8	20.7
140°	17.8	14.8	11.8	14.8	17.8
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)