

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: P384208

Luminaire Tested: **24ID-75-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384208
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-75-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

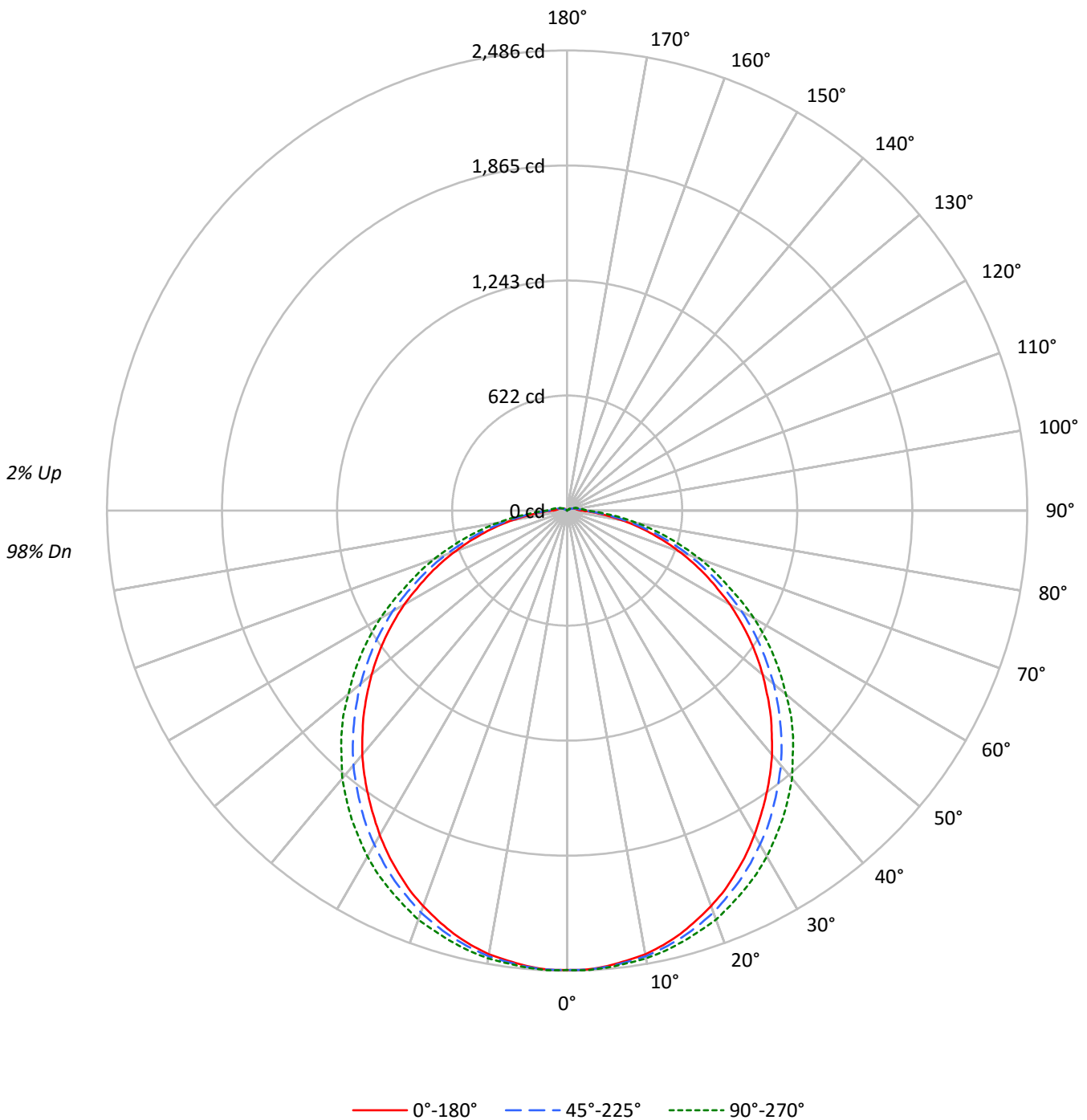
Lumens per Lamp: N/A
Luminaire Lumens: 7351.3 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 70.8
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°	3340	3340	3340
5°	3331	3330	3335
10°	3313	3315	3331
15°	3278	3289	3322
20°	3231	3256	3317
25°	3173	3209	3294
30°	3107	3156	3274
35°	3035	3100	3242
40°	2972	3042	3207
45°	2897	2968	3152
50°	2817	2898	3077
55°	2734	2813	3012
60°	2643	2720	2928
65°	2522	2580	2789
70°	2385	2445	2697
75°	2229	2262	2549
80°	2066	2055	2382
85°	1999	1911	2261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	3.2
10°-20°	673.9	9.2
20°-30°	1017.4	13.8
30°-40°	1219.0	16.6
40°-50°	1260.3	17.1
50°-60°	1141.3	15.5
60°-70°	883.1	12.0
70°-80°	542.5	7.4
80°-90°	215.6	2.9
90°-100°	78.6	1.1
100°-110°	48.3	0.7
110°-120°	24.8	0.3
120°-130°	10.6	0.1
130°-140°	0.7	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°	1926.3	26.2
0°-40°	3145.3	42.8
0°-60°	5547.0	75.5
0°-90°	7188.2	97.8
90°-120°	151.8	2.1
90°-150°	163.2	2.2
90°-180°	163.0	2.2
0°-180°	7351.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2482	2482	2482	2482	2482	
5°	2471	2471	2475	2475	2478	235
15°	2367	2370	2389	2404	2411	667
25°	2158	2173	2206	2244	2262	994
35°	1875	1897	1946	1998	2031	1174
45°	1554	1573	1629	1696	1726	1198
55°	1200	1226	1275	1330	1360	1072
65°	827	846	887	932	954	818
75°	462	484	507	540	566	493
85°	160	171	186	205	216	160
90°	74	86	93	104	112	44
95°	56	63	71	78	86	45
105°	41	41	45	48	52	43
115°	26	22	22	26	30	26
125°	15	11	8	11	15	14
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°	2482.1	2482.1	2482.1	2482.1	2482.1
2.5°	2482.1	2478.4	2482.1	2482.1	2485.9
5°	2471.0	2471.0	2474.7	2474.7	2478.4
7.5°	2452.3	2452.3	2459.8	2463.5	2467.2
10°	2433.7	2433.7	2444.9	2448.6	2456.0
12.5°	2403.9	2407.6	2418.8	2430.0	2437.4
15°	2366.6	2370.3	2389.0	2403.9	2411.3
17.5°	2321.9	2329.3	2351.7	2374.1	2381.5
20°	2273.4	2284.6	2310.7	2336.8	2351.7
22.5°	2221.3	2228.7	2258.5	2292.1	2307.0
25°	2157.9	2172.8	2206.3	2243.6	2262.2
27.5°	2094.5	2109.4	2146.7	2191.4	2213.8
30°	2023.7	2038.6	2083.4	2131.8	2157.9
32.5°	1949.2	1967.8	2020.0	2068.4	2094.5
35°	1874.6	1897.0	1945.5	1997.6	2031.2
37.5°	1800.1	1818.7	1870.9	1926.8	1960.4
40°	1721.8	1740.5	1796.4	1852.3	1889.6
42.5°	1636.1	1658.5	1714.4	1774.0	1803.8
45°	1554.1	1572.8	1628.7	1695.8	1725.6
47.5°	1464.7	1490.8	1543.0	1606.3	1639.9
50°	1379.0	1401.3	1457.2	1516.9	1543.0
52.5°	1289.5	1311.9	1364.1	1423.7	1453.5
55°	1200.1	1226.2	1274.6	1330.5	1360.3
57.5°	1106.9	1133.0	1181.4	1229.9	1263.4
60°	1017.5	1043.5	1088.3	1136.7	1166.5
62.5°	916.8	939.2	987.6	1039.8	1062.2
65°	827.4	846.0	887.0	931.7	954.1
67.5°	734.2	756.6	793.8	834.8	860.9
70°	641.0	667.1	696.9	734.2	764.0
72.5°	551.6	573.9	600.0	637.3	663.4
75°	462.1	484.5	506.9	540.4	566.5
77.5°	383.9	395.1	417.4	447.2	473.3
80°	298.2	313.1	331.7	361.5	380.1
82.5°	223.6	238.5	253.4	275.8	294.4
85°	160.3	171.4	186.3	205.0	216.2
87.5°	108.1	119.3	130.4	145.4	156.5
90°	74.5	85.7	93.2	104.4	111.8
92.5°	63.4	70.8	78.3	85.7	93.2
95°	55.9	63.4	70.8	78.3	85.7
97.5°	52.2	55.9	63.4	70.8	74.5
100°	48.5	52.2	55.9	63.4	67.1
102.5°	44.7	44.7	52.2	55.9	59.6
105°	41.0	41.0	44.7	48.5	52.2
107.5°	37.3	37.3	41.0	41.0	48.5
110°	33.5	29.8	33.5	33.5	41.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.8	26.1	29.8	29.8	33.5
115°	26.1	22.4	22.4	26.1	29.8
117.5°	22.4	18.6	18.6	18.6	26.1
120°	22.4	18.6	14.9	14.9	22.4
122.5°	18.6	14.9	11.2	14.9	18.6
125°	14.9	11.2	7.5	11.2	14.9
127.5°	11.2	11.2	3.7	7.5	11.2
130°	11.2	7.5	3.7	7.5	7.5
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)