

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: P384720

Luminaire Tested: **24ID-85-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-85-L840-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

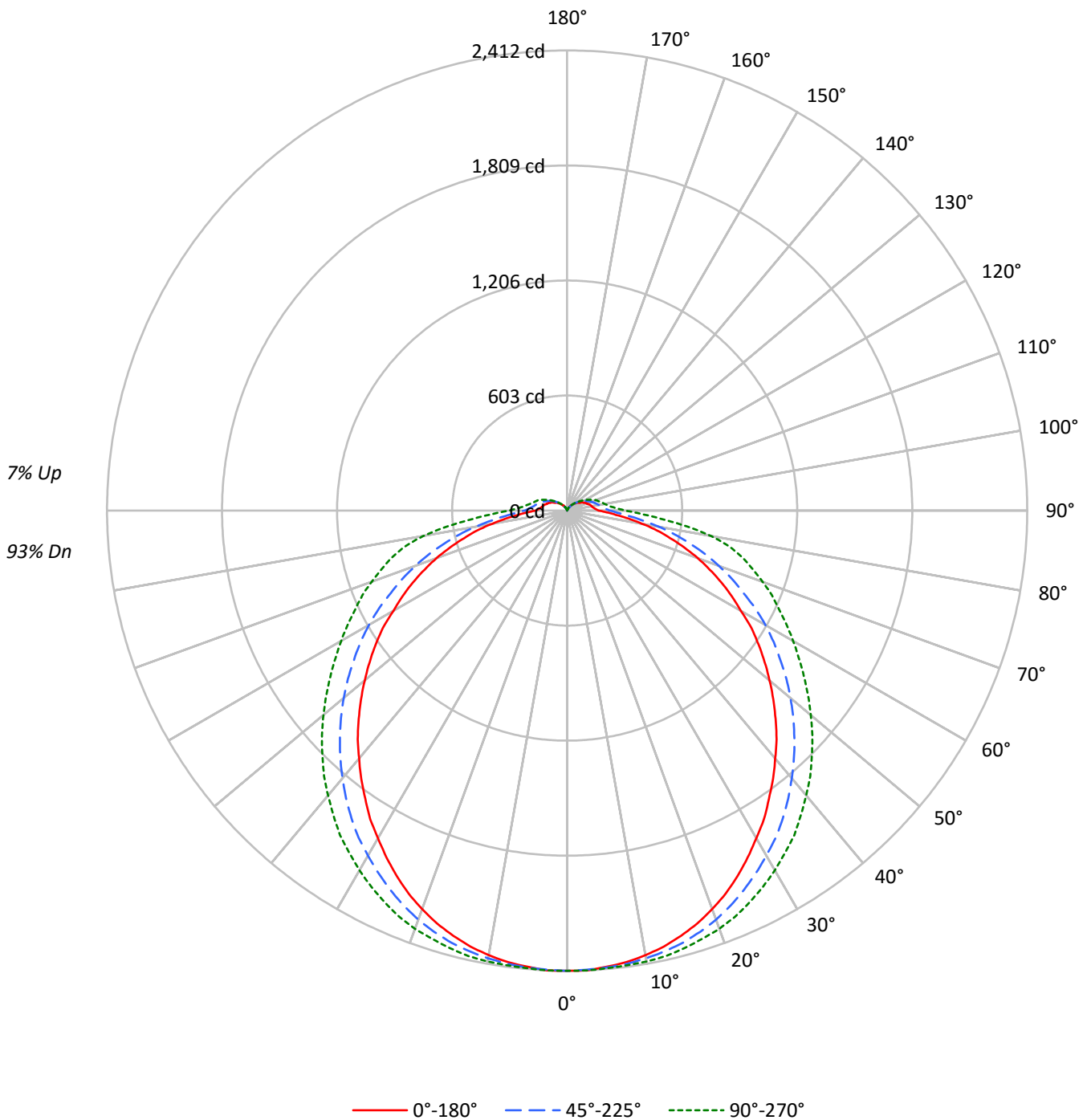
Lumens per Lamp: N/A
Luminaire Lumens: 8442.2 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 82.4
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3246	3246	3246
5°	3224	3210	3218
10°	3198	3181	3208
15°	3161	3155	3201
20°	3112	3117	3194
25°	3049	3067	3178
30°	2974	3014	3154
35°	2902	2962	3135
40°	2832	2895	3099
45°	2767	2829	3069
50°	2699	2763	3038
55°	2639	2690	3017
60°	2556	2626	3027
65°	2506	2526	3076
70°	2446	2440	3193
75°	2361	2313	3373
80°	2288	2160	3474
85°	2312	1990	3131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	2.7
10°-20°	661.0	7.8
20°-30°	1009.9	12.0
30°-40°	1229.4	14.6
40°-50°	1299.4	15.4
50°-60°	1226.5	14.5
60°-70°	1031.9	12.2
70°-80°	744.0	8.8
80°-90°	392.4	4.6
90°-100°	210.0	2.5
100°-110°	159.5	1.9
110°-120°	115.7	1.4
120°-130°	72.6	0.9
130°-140°	39.2	0.5
140°-150°	17.2	0.2
150°-160°	4.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1899.7	22.5
0°-40°	3129.1	37.1
0°-60°	5655.0	67.0
0°-90°	7823.3	92.7
90°-120°	485.2	5.7
90°-150°	614.2	7.3
90°-180°	619.0	7.3
0°-180°	8442.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2412	2412	2412	2412	2412	
5°	2400	2400	2404	2404	2408	228
15°	2307	2316	2345	2362	2375	651
25°	2114	2139	2194	2244	2265	973
35°	1844	1886	1970	2046	2076	1155
45°	1545	1592	1684	1777	1815	1193
55°	1225	1280	1364	1465	1516	1095
65°	893	943	1019	1145	1225	882
75°	560	606	665	796	952	595
85°	257	290	324	404	493	241
90°	164	194	223	265	303	94
95°	143	164	190	215	232	114
105°	122	135	152	168	177	128
115°	97	105	118	126	135	97
125°	72	72	84	84	88	64
135°	50	46	50	50	55	38
145°	30	25	25	25	30	19
155°	13	13	4	8	13	6
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°	2412.5	2412.5	2412.5	2412.5	2412.5
2.5°	2412.5	2408.3	2408.3	2408.3	2412.5
5°	2399.9	2399.9	2404.1	2404.1	2408.3
7.5°	2387.2	2387.2	2395.6	2399.9	2404.1
10°	2366.2	2370.4	2383.0	2391.4	2399.9
12.5°	2340.9	2345.1	2366.2	2383.0	2391.4
15°	2307.2	2315.6	2345.1	2362.0	2374.6
17.5°	2269.3	2282.0	2315.6	2340.9	2353.5
20°	2223.0	2239.9	2282.0	2315.6	2332.5
22.5°	2172.5	2189.3	2239.9	2282.0	2303.0
25°	2113.6	2138.8	2193.5	2244.1	2265.1
27.5°	2050.4	2079.9	2143.0	2202.0	2223.0
30°	1983.0	2016.7	2088.3	2151.4	2176.7
32.5°	1919.9	1953.6	2033.6	2100.9	2126.2
35°	1844.1	1886.2	1970.4	2046.2	2075.7
37.5°	1772.5	1814.6	1903.0	1983.0	2012.5
40°	1696.7	1738.8	1831.5	1919.9	1949.4
42.5°	1625.2	1667.3	1759.9	1852.5	1886.2
45°	1545.2	1591.5	1684.1	1776.7	1814.6
47.5°	1465.2	1511.5	1608.3	1705.2	1743.0
50°	1385.2	1435.7	1528.3	1625.2	1667.3
52.5°	1305.2	1355.7	1448.3	1549.4	1591.5
55°	1225.2	1279.9	1364.1	1465.2	1515.7
57.5°	1145.2	1199.9	1284.1	1389.4	1439.9
60°	1052.6	1115.7	1199.9	1309.4	1368.3
62.5°	972.6	1027.3	1111.5	1225.2	1296.8
65°	892.6	943.1	1018.9	1145.2	1225.2
67.5°	808.4	863.1	934.7	1052.6	1162.0
70°	728.4	774.7	846.3	968.4	1090.5
72.5°	644.2	690.5	757.8	884.2	1018.9
75°	560.0	606.3	665.2	795.7	951.5
77.5°	484.2	522.1	576.8	703.1	871.5
80°	400.0	437.9	488.4	602.1	766.3
82.5°	324.2	357.9	400.0	501.0	631.5
85°	256.8	290.5	324.2	404.2	492.6
87.5°	206.3	231.6	265.2	324.2	383.1
90°	164.2	193.7	223.1	265.2	303.1
92.5°	151.6	176.8	202.1	235.8	261.0
95°	143.1	164.2	189.5	214.7	231.6
97.5°	134.7	155.8	176.8	202.1	214.7
100°	130.5	147.4	168.4	189.5	197.9
102.5°	126.3	138.9	160.0	176.8	189.5
105°	122.1	134.7	151.6	168.4	176.8
107.5°	113.7	126.3	143.1	160.0	168.4
110°	109.5	117.9	134.7	147.4	160.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.3	113.7	126.3	138.9	147.4
115°	96.8	105.3	117.9	126.3	134.7
117.5°	92.6	96.8	109.5	113.7	122.1
120°	84.2	88.4	101.0	105.3	109.5
122.5°	75.8	80.0	92.6	92.6	101.0
125°	71.6	71.6	84.2	84.2	88.4
127.5°	67.4	67.4	75.8	75.8	80.0
130°	58.9	58.9	67.4	67.4	67.4
132.5°	54.7	50.5	58.9	58.9	63.2
135°	50.5	46.3	50.5	50.5	54.7
137.5°	42.1	42.1	46.3	42.1	46.3
140°	37.9	33.7	37.9	37.9	42.1
142.5°	33.7	29.5	33.7	29.5	33.7
145°	29.5	25.3	25.3	25.3	29.5
147.5°	25.3	21.1	21.1	21.1	25.3
150°	21.1	16.8	16.8	16.8	21.1
152.5°	16.8	12.6	8.4	12.6	16.8
155°	12.6	12.6	4.2	8.4	12.6
157.5°	8.4	8.4	0.0	4.2	8.4
160°	4.2	4.2	0.0	4.2	4.2
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)