

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: P384336

Luminaire Tested: **22ID-90-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384336
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: 22ID-90-L840-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

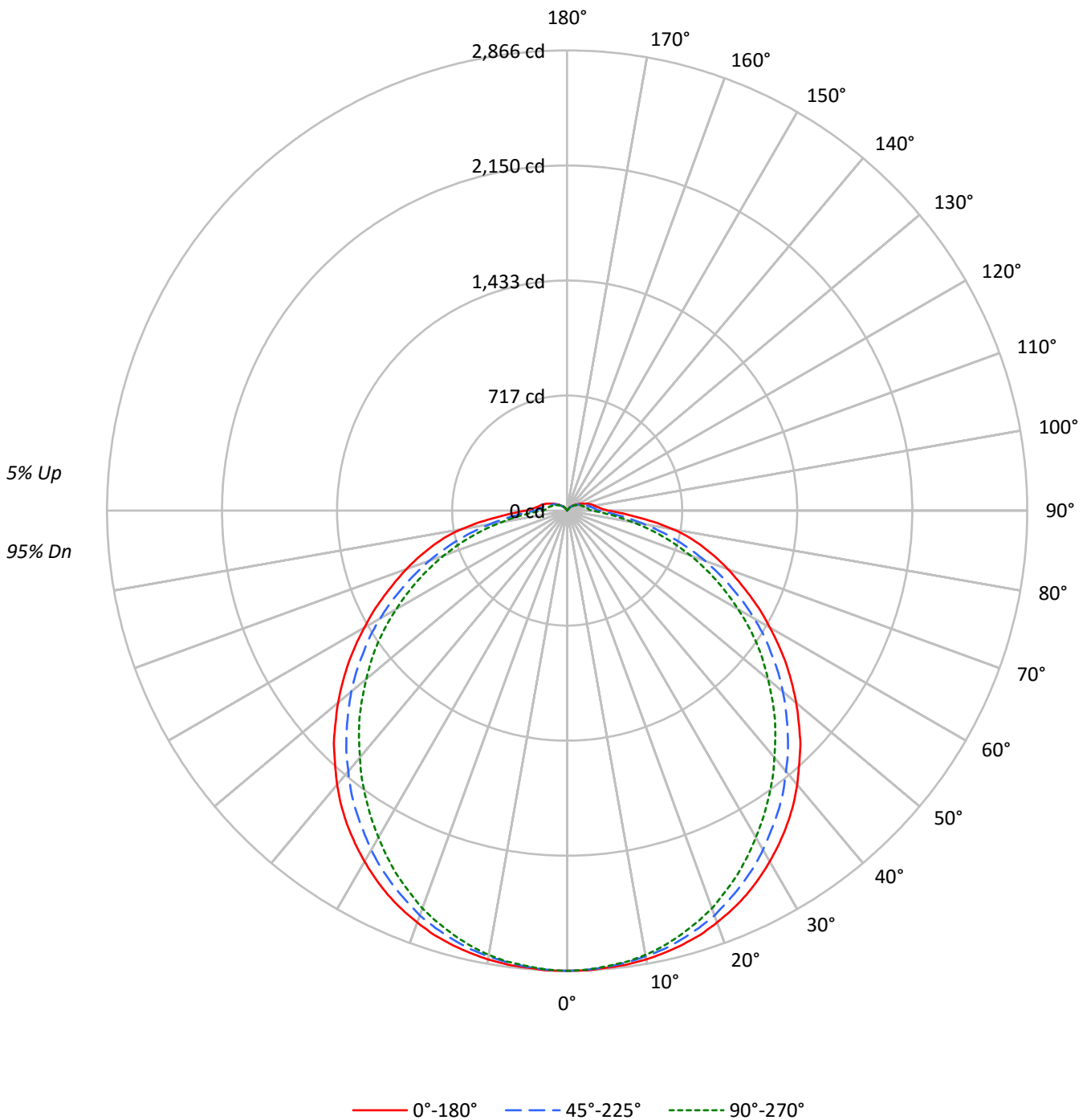
Lumens per Lamp: N/A
Luminaire Lumens: 9297.3 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 85.5
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



TEST NUMBER: P384336
CATALOG NUMBER: 22ID-90-L840-CFD2

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°	7714	7714	7714
5°	7662	7627	7637
10°	7644	7548	7568
15°	7620	7463	7454
20°	7589	7369	7328
25°	7549	7236	7160
30°	7483	7098	6968
35°	7412	6948	6786
40°	7317	6779	6593
45°	7219	6612	6428
50°	7093	6441	6218
55°	6983	6236	6039
60°	6862	6018	5781
65°	6792	5723	5525
70°	6818	5438	5226
75°	6958	5048	4837
80°	7060	4532	4345
85°	6676	4073	4005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	2.9
10°-20°	780.1	8.4
20°-30°	1184.9	12.7
30°-40°	1431.3	15.4
40°-50°	1498.0	16.1
50°-60°	1390.0	15.0
60°-70°	1125.9	12.1
70°-80°	759.8	8.2
80°-90°	367.1	3.9
90°-100°	184.7	2.0
100°-110°	134.2	1.4
110°-120°	89.7	1.0
120°-130°	52.0	0.6
130°-140°	26.2	0.3
140°-150°	2.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2236.4	24.1
0°-40°	3667.6	39.4
0°-60°	6555.7	70.5
0°-90°	8808.5	94.7
90°-120°	408.6	4.4
90°-150°	488.8	5.3
90°-180°	489.0	5.3
0°-180°	9297.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2866	2866	2866	2866	2866	
5°	2857	2852	2852	2848	2848	272
15°	2796	2782	2763	2745	2735	790
25°	2641	2618	2571	2524	2505	1217
35°	2388	2355	2290	2219	2186	1494
45°	2055	2017	1942	1862	1830	1583
55°	1666	1628	1553	1478	1440	1489
65°	1257	1210	1126	1065	1023	1248
75°	877	788	699	647	610	924
85°	422	366	310	282	253	399
90°	253	230	197	178	150	145
95°	202	188	169	150	131	158
105°	150	141	127	113	103	160
115°	103	94	94	80	80	103
125°	66	56	61	52	56	58
135°	38	33	33	33	38	29
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



TEST NUMBER: P384336

CATALOG NUMBER: 22ID-90-L840-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2866.5	2866.5	2866.5	2866.5	2866.5
2.5°	2866.5	2861.8	2861.8	2861.8	2861.8
5°	2857.1	2852.5	2852.5	2847.8	2847.8
7.5°	2852.5	2843.1	2838.4	2833.7	2833.7
10°	2838.4	2829.0	2819.6	2810.2	2810.2
12.5°	2819.6	2810.2	2796.2	2777.4	2777.4
15°	2796.2	2782.1	2763.3	2744.6	2735.2
17.5°	2768.0	2753.9	2725.8	2697.6	2688.3
20°	2730.5	2711.7	2683.6	2646.0	2636.6
22.5°	2688.3	2669.5	2627.3	2589.7	2571.0
25°	2641.3	2617.9	2571.0	2524.0	2505.3
27.5°	2585.0	2561.6	2510.0	2453.7	2430.2
30°	2524.0	2495.9	2439.6	2378.6	2350.5
32.5°	2458.4	2425.5	2364.5	2298.9	2270.7
35°	2388.0	2355.2	2289.5	2219.1	2186.3
37.5°	2312.9	2280.1	2209.7	2134.7	2101.8
40°	2228.5	2195.6	2120.6	2045.5	2008.0
42.5°	2139.3	2111.2	2036.1	1956.4	1918.8
45°	2054.9	2017.4	1942.3	1862.5	1829.7
47.5°	1956.4	1928.2	1848.5	1768.7	1731.2
50°	1862.5	1829.7	1754.6	1674.9	1632.7
52.5°	1764.0	1735.9	1656.1	1576.4	1538.8
55°	1665.5	1628.0	1552.9	1477.8	1440.3
57.5°	1562.3	1529.4	1454.4	1384.0	1337.1
60°	1459.1	1426.2	1346.5	1280.8	1229.2
62.5°	1360.5	1323.0	1238.6	1168.2	1126.0
65°	1257.3	1210.4	1126.0	1065.0	1022.8
67.5°	1158.8	1102.5	1018.1	961.8	919.5
70°	1065.0	999.3	914.9	858.6	816.3
72.5°	971.1	891.4	802.3	750.6	713.1
75°	877.3	788.2	699.0	647.4	609.9
77.5°	783.5	680.3	591.1	548.9	511.4
80°	670.9	572.4	487.9	450.4	412.9
82.5°	544.2	464.5	394.1	356.6	328.4
85°	422.2	365.9	309.6	281.5	253.3
87.5°	328.4	286.2	244.0	220.5	197.0
90°	253.3	229.9	197.0	178.3	150.1
92.5°	220.5	201.7	178.3	159.5	136.1
95°	201.7	187.7	168.9	150.1	131.4
97.5°	183.0	173.6	154.8	140.7	122.0
100°	173.6	159.5	145.4	131.4	117.3
102.5°	164.2	150.1	136.1	122.0	112.6
105°	150.1	140.7	126.7	112.6	103.2
107.5°	140.7	126.7	117.3	103.2	98.5
110°	126.7	117.3	107.9	98.5	93.8



TEST NUMBER: P384336

CATALOG NUMBER: 22ID-90-L840-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	107.9	98.5	89.1	84.4
115°	103.2	93.8	93.8	79.8	79.8
117.5°	93.8	84.4	84.4	75.1	75.1
120°	79.8	75.1	75.1	65.7	65.7
122.5°	70.4	65.7	65.7	61.0	61.0
125°	65.7	56.3	61.0	51.6	56.3
127.5°	56.3	51.6	51.6	46.9	51.6
130°	46.9	42.2	42.2	42.2	46.9
132.5°	42.2	37.5	37.5	37.5	42.2
135°	37.5	32.8	32.8	32.8	37.5
137.5°	32.8	28.1	23.5	28.1	32.8
140°	28.1	23.5	18.8	23.5	28.1
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)