

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: P384220

Luminaire Tested: **24ID-90-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384220
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-90-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

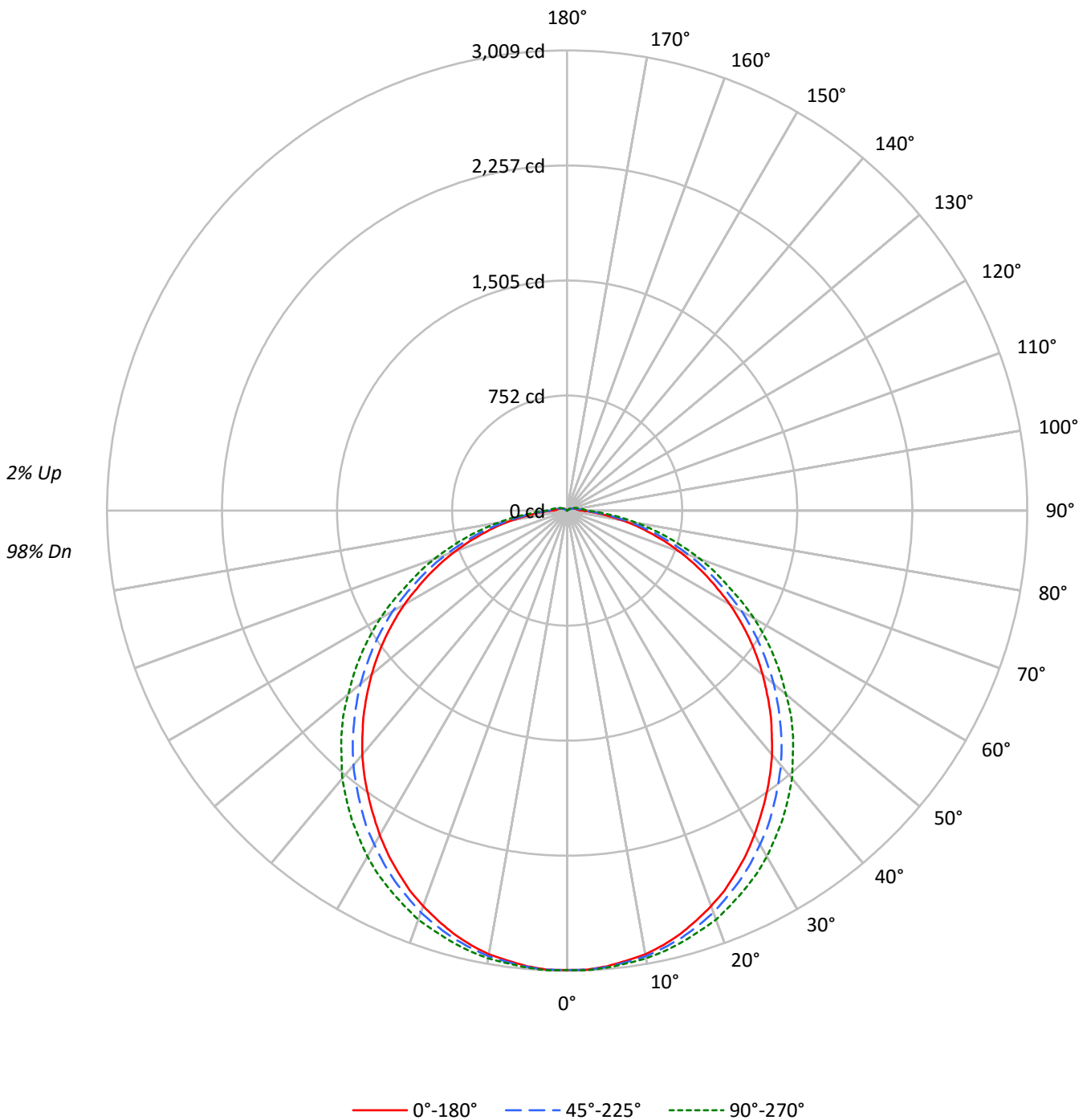
Lumens per Lamp: N/A
Luminaire Lumens: 8898.4 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 87.5
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°	4043	4043	4043
5°	4032	4030	4037
10°	4010	4012	4032
15°	3968	3981	4021
20°	3911	3941	4015
25°	3840	3885	3988
30°	3761	3821	3963
35°	3674	3752	3924
40°	3598	3683	3882
45°	3507	3592	3815
50°	3409	3508	3725
55°	3309	3405	3646
60°	3199	3293	3544
65°	3052	3123	3375
70°	2887	2959	3265
75°	2698	2738	3085
80°	2501	2488	2884
85°	2419	2314	2737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	3.2
10°-20°	815.7	9.2
20°-30°	1231.5	13.8
30°-40°	1475.5	16.6
40°-50°	1525.5	17.1
50°-60°	1381.5	15.5
60°-70°	1069.0	12.0
70°-80°	656.7	7.4
80°-90°	260.9	2.9
90°-100°	95.2	1.1
100°-110°	58.5	0.7
110°-120°	30.1	0.3
120°-130°	12.8	0.1
130°-140°	0.9	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°	2331.7	26.2
0°-40°	3807.3	42.8
0°-60°	6714.3	75.5
0°-90°	8700.9	97.8
90°-120°	183.8	2.1
90°-150°	197.5	2.2
90°-180°	197.0	2.2
0°-180°	8898.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3004	3004	3004	3004	3004	
5°	2991	2991	2996	2996	3000	284
15°	2865	2869	2892	2910	2919	807
25°	2612	2630	2671	2716	2738	1204
35°	2269	2296	2355	2418	2459	1421
45°	1881	1904	1971	2053	2089	1450
55°	1453	1484	1543	1610	1647	1298
65°	1002	1024	1074	1128	1155	991
75°	559	586	614	654	686	596
85°	194	208	226	248	262	193
90°	90	104	113	126	135	53
95°	68	77	86	95	104	54
105°	50	50	54	59	63	53
115°	32	27	27	32	36	32
125°	18	14	9	14	18	17
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°	3004.5	3004.5	3004.5	3004.5	3004.5
2.5°	3004.5	3000.0	3004.5	3004.5	3009.0
5°	2991.0	2991.0	2995.5	2995.5	3000.0
7.5°	2968.4	2968.4	2977.4	2982.0	2986.5
10°	2945.9	2945.9	2959.4	2963.9	2972.9
12.5°	2909.8	2914.3	2927.8	2941.4	2950.4
15°	2864.7	2869.2	2891.7	2909.8	2918.8
17.5°	2810.5	2819.5	2846.6	2873.7	2882.7
20°	2751.9	2765.4	2797.0	2828.6	2846.6
22.5°	2688.7	2697.7	2733.8	2774.4	2792.5
25°	2612.0	2630.1	2670.7	2715.8	2738.3
27.5°	2535.3	2553.4	2598.5	2652.6	2679.7
30°	2449.6	2467.7	2521.8	2580.4	2612.0
32.5°	2359.4	2382.0	2445.1	2503.8	2535.3
35°	2269.2	2296.2	2354.9	2418.0	2458.6
37.5°	2178.9	2201.5	2264.7	2332.3	2372.9
40°	2084.2	2106.8	2174.4	2242.1	2287.2
42.5°	1980.4	2007.5	2075.2	2147.4	2183.5
45°	1881.2	1903.8	1971.4	2052.6	2088.7
47.5°	1772.9	1804.5	1867.7	1944.4	1985.0
50°	1669.2	1696.2	1763.9	1836.1	1867.7
52.5°	1560.9	1588.0	1651.1	1723.3	1759.4
55°	1452.6	1484.2	1542.9	1610.5	1646.6
57.5°	1339.8	1371.4	1430.1	1488.7	1529.3
60°	1231.6	1263.2	1317.3	1375.9	1412.0
62.5°	1109.8	1136.8	1195.5	1258.6	1285.7
65°	1001.5	1024.1	1073.7	1127.8	1154.9
67.5°	888.7	915.8	960.9	1010.5	1042.1
70°	775.9	807.5	843.6	888.7	924.8
72.5°	667.7	694.7	726.3	771.4	803.0
75°	559.4	586.5	613.5	654.1	685.7
77.5°	464.7	478.2	505.3	541.4	572.9
80°	360.9	378.9	401.5	437.6	460.2
82.5°	270.7	288.7	306.8	333.8	356.4
85°	194.0	207.5	225.6	248.1	261.7
87.5°	130.8	144.4	157.9	175.9	189.5
90°	90.2	103.8	112.8	126.3	135.3
92.5°	76.7	85.7	94.7	103.8	112.8
95°	67.7	76.7	85.7	94.7	103.8
97.5°	63.2	67.7	76.7	85.7	90.2
100°	58.6	63.2	67.7	76.7	81.2
102.5°	54.1	54.1	63.2	67.7	72.2
105°	49.6	49.6	54.1	58.6	63.2
107.5°	45.1	45.1	49.6	49.6	58.6
110°	40.6	36.1	40.6	40.6	49.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.1	31.6	36.1	36.1	40.6
115°	31.6	27.1	27.1	31.6	36.1
117.5°	27.1	22.6	22.6	22.6	31.6
120°	27.1	22.6	18.0	18.0	27.1
122.5°	22.6	18.0	13.5	18.0	22.6
125°	18.0	13.5	9.0	13.5	18.0
127.5°	13.5	13.5	4.5	9.0	13.5
130°	13.5	9.0	4.5	9.0	9.0
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)