

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: P384221

Luminaire Tested: **24ID-90-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384221
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-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

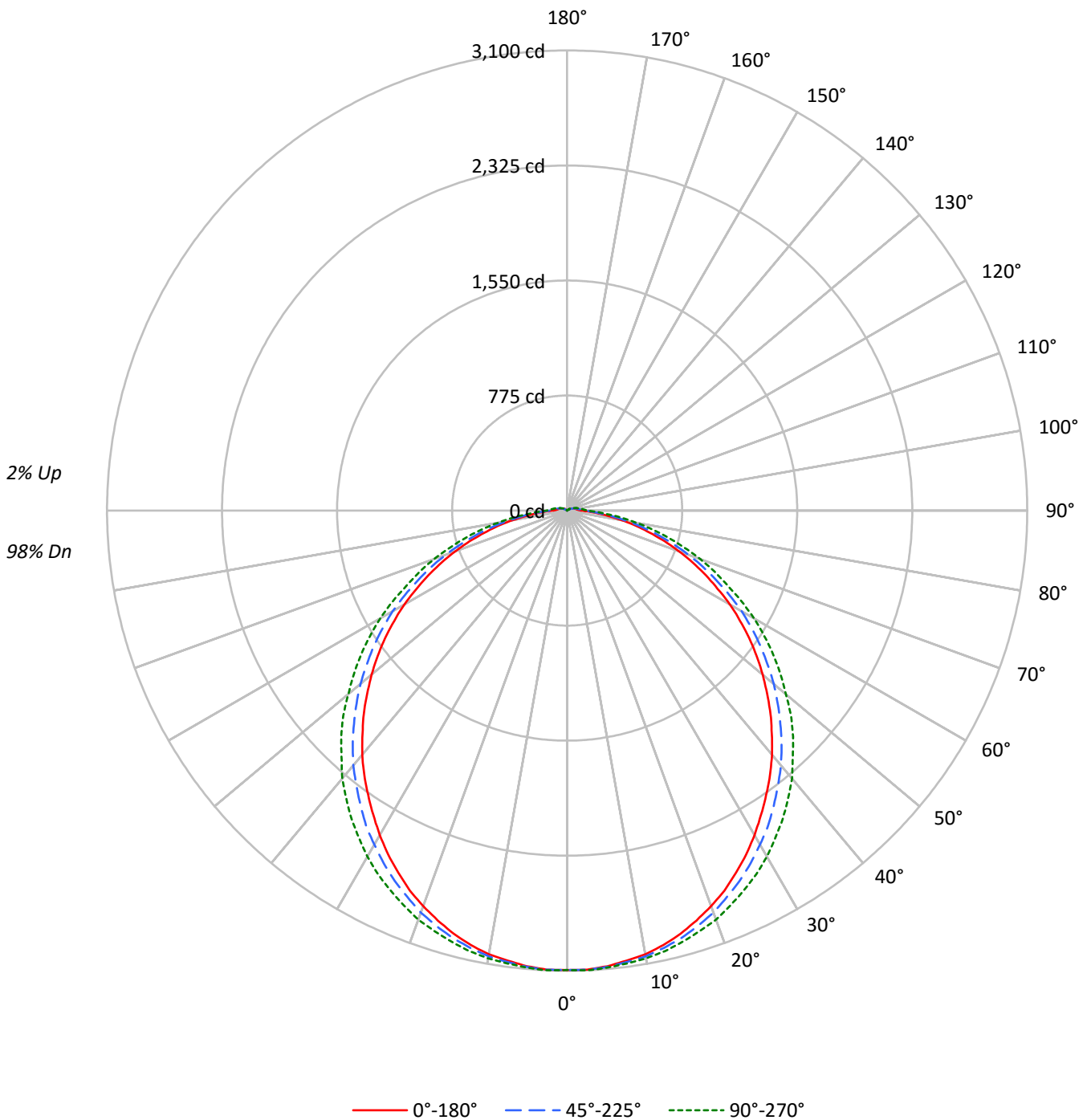
Lumens per Lamp: N/A
Luminaire Lumens: 9168.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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°	4165	4165	4165
5°	4155	4152	4160
10°	4132	4134	4154
15°	4088	4102	4143
20°	4029	4061	4137
25°	3957	4003	4109
30°	3875	3936	4083
35°	3785	3866	4043
40°	3707	3794	3999
45°	3613	3701	3931
50°	3513	3614	3837
55°	3410	3508	3756
60°	3296	3393	3651
65°	3145	3217	3478
70°	2975	3049	3363
75°	2780	2821	3179
80°	2577	2563	2972
85°	2493	2384	2820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	3.2
10°-20°	840.4	9.2
20°-30°	1268.8	13.8
30°-40°	1520.3	16.6
40°-50°	1571.8	17.1
50°-60°	1423.4	15.5
60°-70°	1101.4	12.0
70°-80°	676.6	7.4
80°-90°	268.9	2.9
90°-100°	98.1	1.1
100°-110°	60.3	0.7
110°-120°	31.0	0.3
120°-130°	13.2	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°	2402.4	26.2
0°-40°	3922.7	42.8
0°-60°	6917.8	75.5
0°-90°	8964.7	97.8
90°-120°	189.3	2.1
90°-150°	203.4	2.2
90°-180°	203.0	2.2
0°-180°	9168.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3096	3096	3096	3096	3096	
5°	3082	3082	3086	3086	3091	293
15°	2952	2956	2979	2998	3007	832
25°	2691	2710	2752	2798	2821	1240
35°	2338	2366	2426	2491	2533	1464
45°	1938	1962	2031	2115	2152	1494
55°	1497	1529	1590	1659	1696	1337
65°	1032	1055	1106	1162	1190	1021
75°	576	604	632	674	706	614
85°	200	214	232	256	270	199
90°	93	107	116	130	139	55
95°	70	79	88	98	107	56
105°	51	51	56	60	65	54
115°	32	28	28	32	37	33
125°	19	14	9	14	19	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°	3095.6	3095.6	3095.6	3095.6	3095.6
2.5°	3095.6	3090.9	3095.6	3095.6	3100.2
5°	3081.6	3081.6	3086.3	3086.3	3090.9
7.5°	3058.4	3058.4	3067.7	3072.3	3077.0
10°	3035.1	3035.1	3049.1	3053.7	3063.0
12.5°	2998.0	3002.6	3016.6	3030.5	3039.8
15°	2951.5	2956.1	2979.4	2998.0	3007.3
17.5°	2895.7	2905.0	2932.9	2960.8	2970.1
20°	2835.3	2849.2	2881.8	2914.3	2932.9
22.5°	2770.2	2779.5	2816.7	2858.5	2877.1
25°	2691.2	2709.8	2751.6	2798.1	2821.3
27.5°	2612.2	2630.8	2677.3	2733.0	2760.9
30°	2523.9	2542.5	2598.2	2658.7	2691.2
32.5°	2430.9	2454.1	2519.2	2579.6	2612.2
35°	2337.9	2365.8	2426.3	2491.3	2533.2
37.5°	2245.0	2268.2	2333.3	2403.0	2444.9
40°	2147.4	2170.6	2240.3	2310.1	2356.5
42.5°	2040.5	2068.4	2138.1	2212.5	2249.6
45°	1938.2	1961.5	2031.2	2114.8	2152.0
47.5°	1826.7	1859.2	1924.3	2003.3	2045.1
50°	1719.8	1747.7	1817.4	1891.7	1924.3
52.5°	1608.2	1636.1	1701.2	1775.5	1812.7
55°	1496.7	1529.2	1589.6	1659.3	1696.5
57.5°	1380.5	1413.0	1473.4	1533.8	1575.7
60°	1268.9	1301.4	1357.2	1417.6	1454.8
62.5°	1143.4	1171.3	1231.7	1296.8	1324.7
65°	1031.9	1055.1	1106.2	1162.0	1189.9
67.5°	915.7	943.5	990.0	1041.2	1073.7
70°	799.5	832.0	869.2	915.7	952.8
72.5°	687.9	715.8	748.3	794.8	827.3
75°	576.4	604.2	632.1	674.0	706.5
77.5°	478.7	492.7	520.6	557.8	590.3
80°	371.8	390.4	413.7	450.9	474.1
82.5°	278.9	297.5	316.1	344.0	367.2
85°	199.9	213.8	232.4	255.6	269.6
87.5°	134.8	148.7	162.7	181.3	195.2
90°	93.0	106.9	116.2	130.1	139.4
92.5°	79.0	88.3	97.6	106.9	116.2
95°	69.7	79.0	88.3	97.6	106.9
97.5°	65.1	69.7	79.0	88.3	93.0
100°	60.4	65.1	69.7	79.0	83.7
102.5°	55.8	55.8	65.1	69.7	74.4
105°	51.1	51.1	55.8	60.4	65.1
107.5°	46.5	46.5	51.1	51.1	60.4
110°	41.8	37.2	41.8	41.8	51.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.2	32.5	37.2	37.2	41.8
115°	32.5	27.9	27.9	32.5	37.2
117.5°	27.9	23.2	23.2	23.2	32.5
120°	27.9	23.2	18.6	18.6	27.9
122.5°	23.2	18.6	13.9	18.6	23.2
125°	18.6	13.9	9.3	13.9	18.6
127.5°	13.9	13.9	4.6	9.3	13.9
130°	13.9	9.3	4.6	9.3	9.3
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)