

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: P384169

Luminaire Tested: **22ID-90-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384169
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: 22ID-90-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

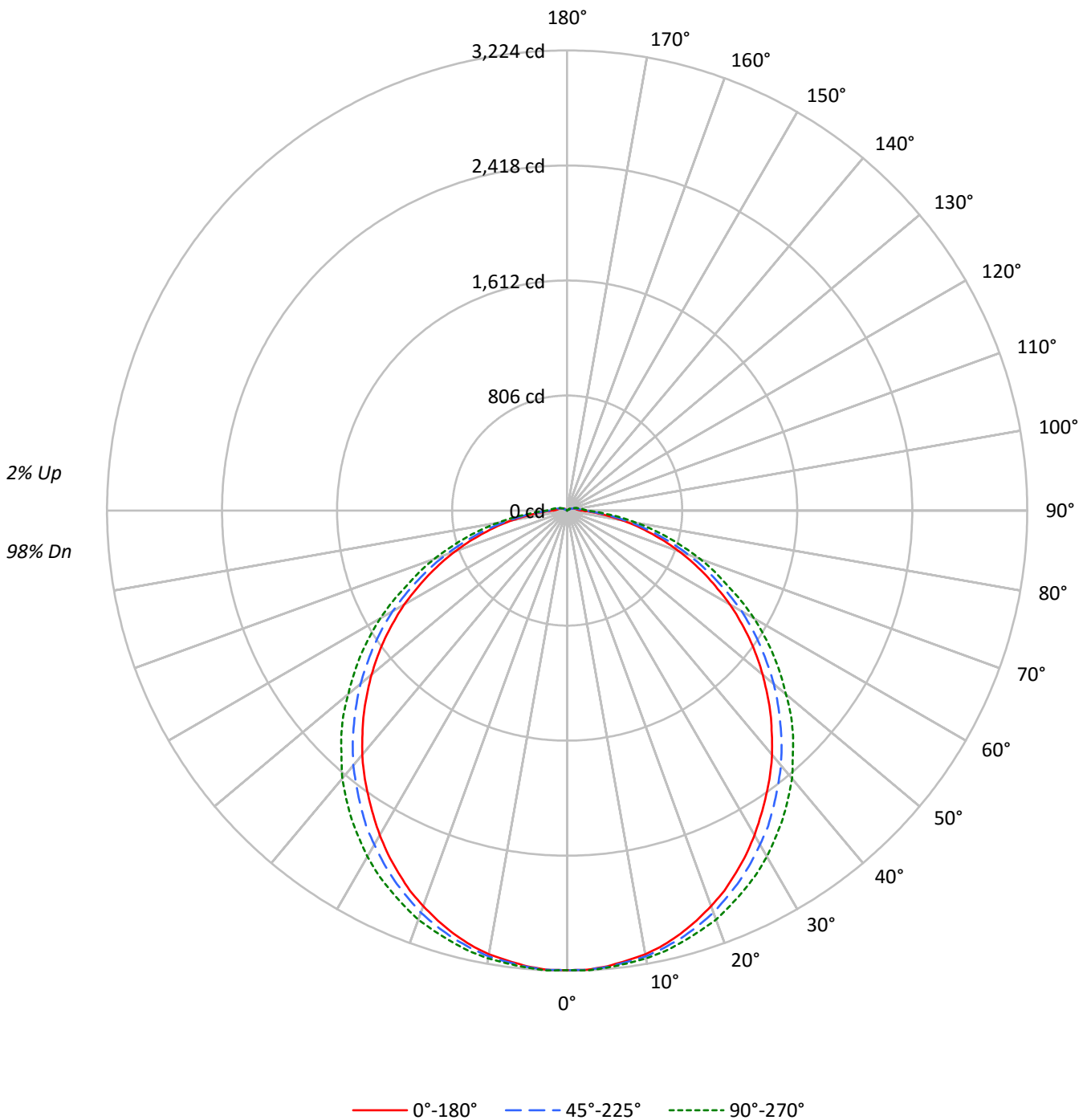
Lumens per Lamp: N/A
Luminaire Lumens: 9535.6 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 85.5
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°	8664	8664	8664
5°	8627	8627	8652
10°	8563	8576	8642
15°	8458	8499	8618
20°	8319	8403	8605
25°	8153	8270	8547
30°	7965	8121	8493
35°	7762	7962	8410
40°	7581	7800	8319
45°	7365	7593	8178
50°	7134	7394	7982
55°	6893	7155	7814
60°	6625	6894	7596
65°	6273	6505	7234
70°	5870	6122	6996
75°	5395	5604	6612
80°	4848	4998	6181
85°	4349	4460	5865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.9	3.2
10°-20°	874.1	9.2
20°-30°	1319.7	13.8
30°-40°	1581.2	16.6
40°-50°	1634.8	17.1
50°-60°	1480.4	15.5
60°-70°	1145.6	12.0
70°-80°	703.7	7.4
80°-90°	279.6	2.9
90°-100°	102.0	1.1
100°-110°	62.7	0.7
110°-120°	32.2	0.3
120°-130°	13.7	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°	2498.7	26.2
0°-40°	4079.9	42.8
0°-60°	7195.1	75.5
0°-90°	9324.0	97.8
90°-120°	196.9	2.1
90°-150°	211.6	2.2
90°-180°	212.0	2.2
0°-180°	9535.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3220	3220	3220	3220	3220	
5°	3205	3205	3210	3210	3215	304
15°	3070	3075	3099	3118	3128	865
25°	2799	2818	2862	2910	2934	1290
35°	2432	2461	2524	2591	2635	1522
45°	2016	2040	2113	2200	2238	1554
55°	1557	1590	1653	1726	1764	1391
65°	1073	1097	1151	1209	1238	1062
75°	600	628	658	701	735	639
85°	208	222	242	266	280	207
90°	97	111	121	135	145	57
95°	72	82	92	102	111	58
105°	53	53	58	63	68	56
115°	34	29	29	34	39	34
125°	19	14	10	14	19	18
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°	3219.7	3219.7	3219.7	3219.7	3219.7
2.5°	3219.7	3214.8	3219.7	3219.7	3224.5
5°	3205.2	3205.2	3210.0	3210.0	3214.8
7.5°	3181.0	3181.0	3190.7	3195.5	3200.3
10°	3156.8	3156.8	3171.3	3176.1	3185.8
12.5°	3118.1	3123.0	3137.5	3152.0	3161.6
15°	3069.8	3074.6	3098.8	3118.1	3127.8
17.5°	3011.8	3021.5	3050.5	3079.5	3089.1
20°	2948.9	2963.4	2997.3	3031.1	3050.5
22.5°	2881.3	2890.9	2929.6	2973.1	2992.4
25°	2799.1	2818.4	2861.9	2910.3	2934.4
27.5°	2716.9	2736.2	2784.6	2842.6	2871.6
30°	2625.0	2644.4	2702.4	2765.2	2799.1
32.5°	2528.3	2552.5	2620.2	2683.0	2716.9
35°	2431.7	2460.7	2523.5	2591.2	2634.7
37.5°	2335.0	2359.1	2426.8	2499.3	2542.9
40°	2233.5	2257.6	2330.1	2402.7	2451.0
42.5°	2122.3	2151.3	2223.8	2301.1	2339.8
45°	2015.9	2040.1	2112.6	2199.6	2238.3
47.5°	1899.9	1933.7	2001.4	2083.6	2127.1
50°	1788.7	1817.7	1890.2	1967.6	2001.4
52.5°	1672.7	1701.7	1769.4	1846.7	1885.4
55°	1556.7	1590.5	1653.3	1725.9	1764.5
57.5°	1435.8	1469.6	1532.5	1595.3	1638.8
60°	1319.8	1353.6	1411.6	1474.5	1513.1
62.5°	1189.2	1218.2	1281.1	1348.8	1377.8
65°	1073.2	1097.4	1150.6	1208.6	1237.6
67.5°	952.4	981.4	1029.7	1082.9	1116.7
70°	831.5	865.3	904.0	952.4	991.0
72.5°	715.5	744.5	778.3	826.7	860.5
75°	599.5	628.5	657.5	701.0	734.8
77.5°	497.9	512.4	541.4	580.1	614.0
80°	386.7	406.1	430.3	468.9	493.1
82.5°	290.1	309.4	328.7	357.7	381.9
85°	207.9	222.4	241.7	265.9	280.4
87.5°	140.2	154.7	169.2	188.5	203.0
90°	96.7	111.2	120.9	135.4	145.0
92.5°	82.2	91.9	101.5	111.2	120.9
95°	72.5	82.2	91.9	101.5	111.2
97.5°	67.7	72.5	82.2	91.9	96.7
100°	62.8	67.7	72.5	82.2	87.0
102.5°	58.0	58.0	67.7	72.5	77.3
105°	53.2	53.2	58.0	62.8	67.7
107.5°	48.3	48.3	53.2	53.2	62.8
110°	43.5	38.7	43.5	43.5	53.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	38.7	33.8	38.7	38.7	43.5
115°	33.8	29.0	29.0	33.8	38.7
117.5°	29.0	24.2	24.2	24.2	33.8
120°	29.0	24.2	19.3	19.3	29.0
122.5°	24.2	19.3	14.5	19.3	24.2
125°	19.3	14.5	9.7	14.5	19.3
127.5°	14.5	14.5	4.8	9.7	14.5
130°	14.5	9.7	4.8	9.7	9.7
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)