

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: P384214

Luminaire Tested: **24ID-85-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384214
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-85-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

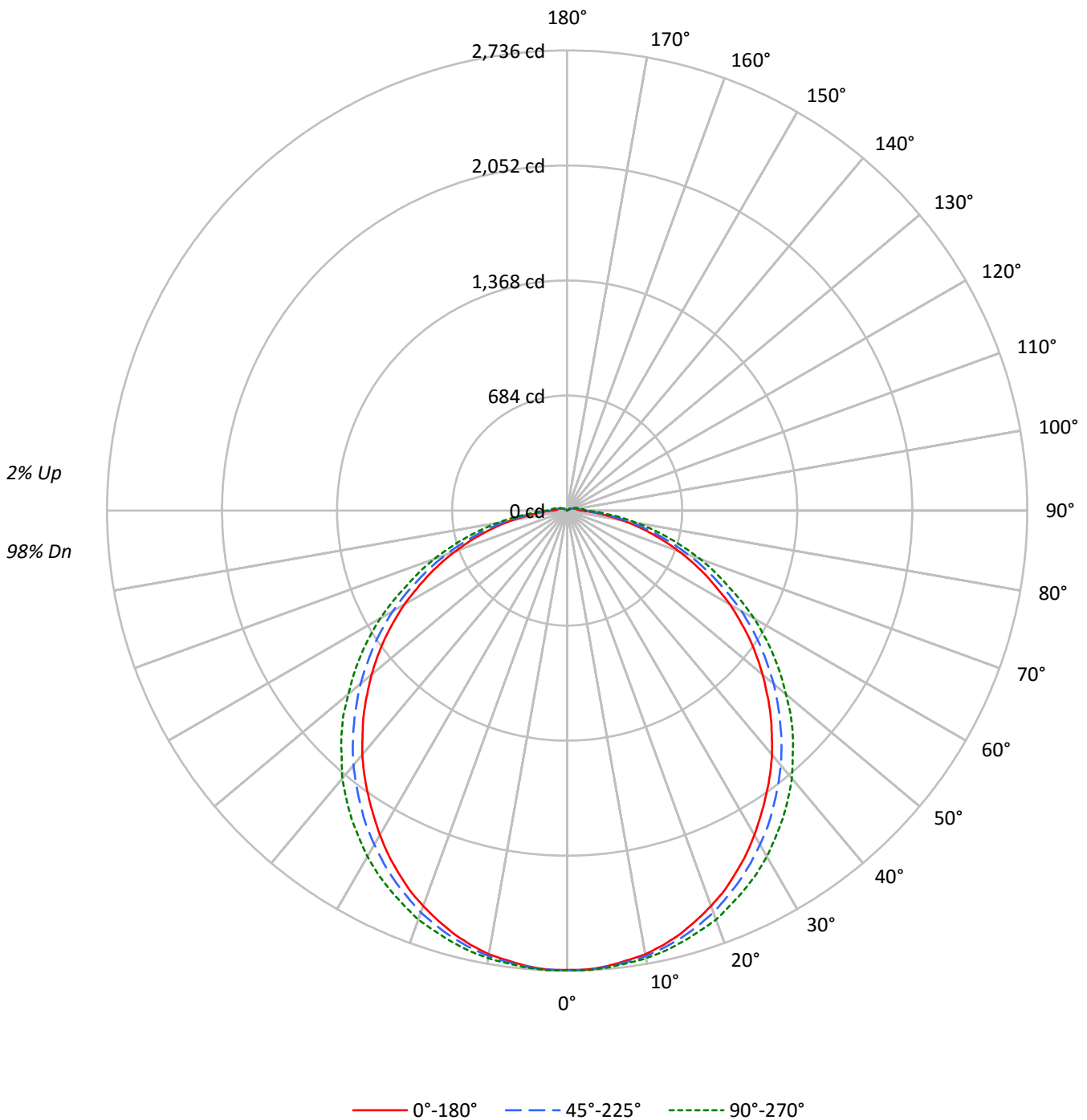
Lumens per Lamp: N/A
Luminaire Lumens: 8089.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 82
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°	3675	3675	3675
5°	3666	3664	3670
10°	3646	3647	3666
15°	3608	3619	3656
20°	3555	3583	3650
25°	3492	3532	3626
30°	3419	3473	3603
35°	3340	3411	3568
40°	3271	3348	3529
45°	3188	3266	3469
50°	3100	3189	3386
55°	3009	3095	3314
60°	2908	2994	3222
65°	2775	2839	3069
70°	2625	2691	2968
75°	2453	2489	2805
80°	2274	2262	2622
85°	2200	2104	2488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.7	3.2
10°-20°	741.6	9.2
20°-30°	1119.6	13.8
30°-40°	1341.5	16.6
40°-50°	1387.0	17.1
50°-60°	1256.0	15.5
60°-70°	971.9	12.0
70°-80°	597.0	7.4
80°-90°	237.2	2.9
90°-100°	86.5	1.1
100°-110°	53.2	0.7
110°-120°	27.3	0.3
120°-130°	11.7	0.1
130°-140°	0.8	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°	2119.9	26.2
0°-40°	3461.4	42.8
0°-60°	6104.3	75.5
0°-90°	7910.5	97.8
90°-120°	167.0	2.1
90°-150°	179.5	2.2
90°-180°	179.0	2.2
0°-180°	8089.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2732	2732	2732	2732	2732	
5°	2719	2719	2723	2723	2728	258
15°	2604	2608	2629	2645	2654	734
25°	2375	2391	2428	2469	2490	1094
35°	2063	2088	2141	2198	2235	1292
45°	1710	1731	1792	1866	1899	1318
55°	1321	1349	1403	1464	1497	1180
65°	910	931	976	1025	1050	901
75°	509	533	558	595	623	542
85°	176	189	205	226	238	176
90°	82	94	102	115	123	48
95°	62	70	78	86	94	49
105°	45	45	49	53	57	48
115°	29	25	25	29	33	29
125°	16	12	8	12	16	15
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°	2731.6	2731.6	2731.6	2731.6	2731.6
2.5°	2731.6	2727.5	2731.6	2731.6	2735.7
5°	2719.3	2719.3	2723.4	2723.4	2727.5
7.5°	2698.7	2698.7	2706.9	2711.0	2715.2
10°	2678.2	2678.2	2690.5	2694.6	2702.8
12.5°	2645.4	2649.5	2661.8	2674.1	2682.3
15°	2604.4	2608.5	2629.0	2645.4	2653.6
17.5°	2555.2	2563.4	2588.0	2612.6	2620.8
20°	2501.9	2514.2	2542.9	2571.6	2588.0
22.5°	2444.5	2452.7	2485.5	2522.4	2538.8
25°	2374.7	2391.1	2428.0	2469.1	2489.6
27.5°	2305.0	2321.4	2362.4	2411.6	2436.3
30°	2227.1	2243.5	2292.7	2346.0	2374.7
32.5°	2145.1	2165.6	2223.0	2276.3	2305.0
35°	2063.0	2087.6	2140.9	2198.4	2235.3
37.5°	1981.0	2001.5	2058.9	2120.4	2157.4
40°	1894.9	1915.4	1976.9	2038.4	2079.4
42.5°	1800.5	1825.1	1886.7	1952.3	1985.1
45°	1710.3	1730.8	1792.3	1866.2	1899.0
47.5°	1611.9	1640.6	1698.0	1767.7	1804.6
50°	1517.5	1542.1	1603.7	1669.3	1698.0
52.5°	1419.1	1443.7	1501.1	1566.7	1599.6
55°	1320.7	1349.4	1402.7	1464.2	1497.0
57.5°	1218.1	1246.8	1300.2	1353.5	1390.4
60°	1119.7	1148.4	1197.6	1250.9	1283.7
62.5°	1009.0	1033.6	1086.9	1144.3	1168.9
65°	910.5	931.0	976.1	1025.4	1050.0
67.5°	808.0	832.6	873.6	918.7	947.4
70°	705.4	734.2	767.0	808.0	840.8
72.5°	607.0	631.6	660.3	701.3	730.1
75°	508.6	533.2	557.8	594.7	623.4
77.5°	422.4	434.8	459.4	492.2	520.9
80°	328.1	344.5	365.0	397.8	418.3
82.5°	246.1	262.5	278.9	303.5	324.0
85°	176.4	188.7	205.1	225.6	237.9
87.5°	118.9	131.2	143.6	160.0	172.3
90°	82.0	94.3	102.5	114.8	123.0
92.5°	69.7	77.9	86.1	94.3	102.5
95°	61.5	69.7	77.9	86.1	94.3
97.5°	57.4	61.5	69.7	77.9	82.0
100°	53.3	57.4	61.5	69.7	73.8
102.5°	49.2	49.2	57.4	61.5	65.6
105°	45.1	45.1	49.2	53.3	57.4
107.5°	41.0	41.0	45.1	45.1	53.3
110°	36.9	32.8	36.9	36.9	45.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.8	28.7	32.8	32.8	36.9
115°	28.7	24.6	24.6	28.7	32.8
117.5°	24.6	20.5	20.5	20.5	28.7
120°	24.6	20.5	16.4	16.4	24.6
122.5°	20.5	16.4	12.3	16.4	20.5
125°	16.4	12.3	8.2	12.3	16.4
127.5°	12.3	12.3	4.1	8.2	12.3
130°	12.3	8.2	4.1	8.2	8.2
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)