

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: P384385

Luminaire Tested: **24ID-85-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384385
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: 24ID-85-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

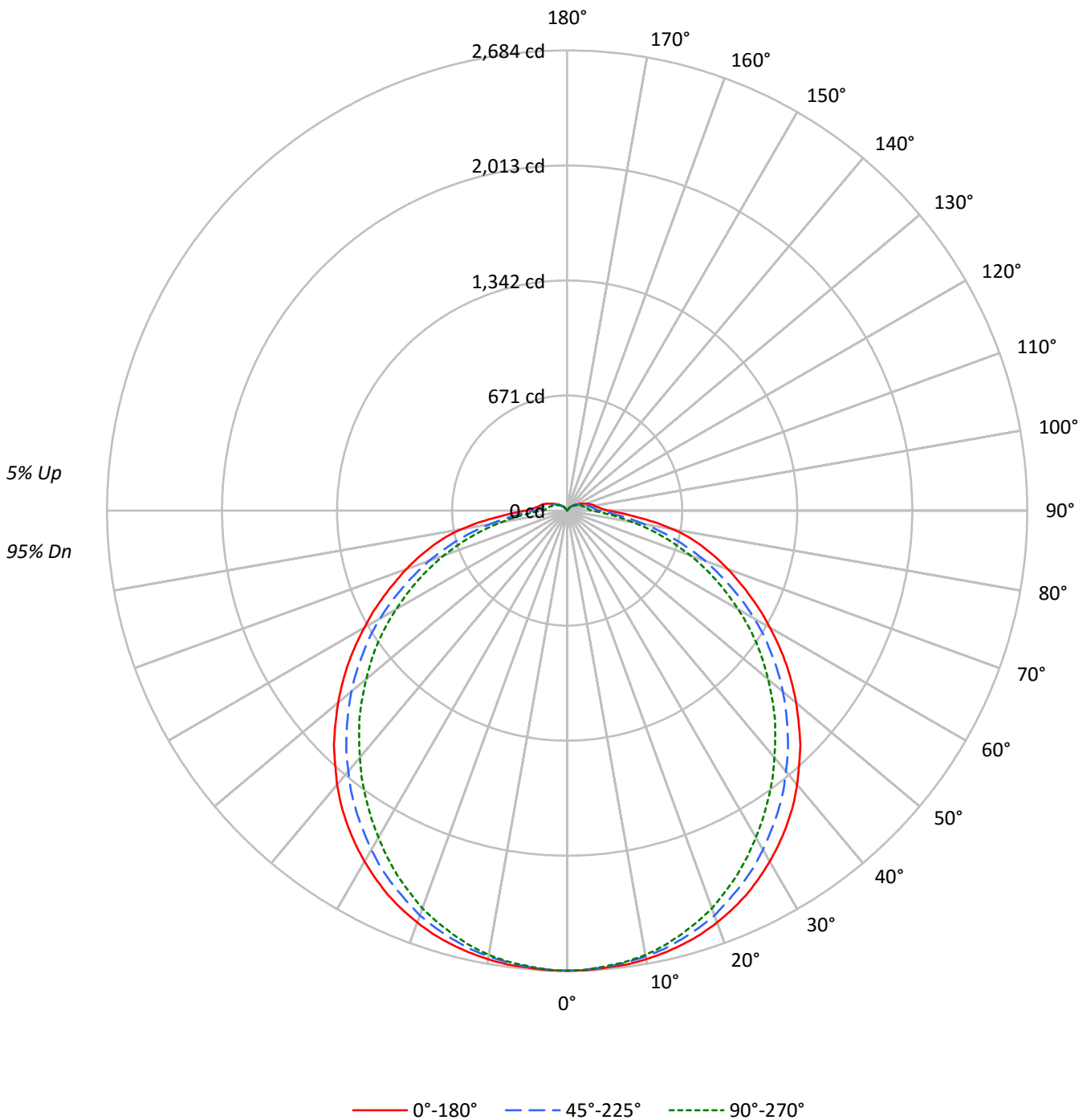
Lumens per Lamp: N/A
Luminaire Lumens: 8705.2 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 82.4
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



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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	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°	3611	3611	3611
5°	3600	3580	3575
10°	3604	3552	3543
15°	3607	3521	3489
20°	3606	3486	3431
25°	3602	3432	3352
30°	3585	3377	3262
35°	3568	3316	3177
40°	3541	3247	3086
45°	3515	3179	3009
50°	3478	3111	2911
55°	3453	3028	2827
60°	3429	2942	2706
65°	3441	2822	2586
70°	3520	2711	2447
75°	3695	2558	2265
80°	3937	2358	2034
85°	4134	2226	1875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	2.9
10°-20°	730.5	8.4
20°-30°	1109.5	12.7
30°-40°	1340.1	15.4
40°-50°	1402.6	16.1
50°-60°	1301.5	15.0
60°-70°	1054.2	12.1
70°-80°	711.4	8.2
80°-90°	343.7	3.9
90°-100°	172.9	2.0
100°-110°	125.7	1.4
110°-120°	84.0	1.0
120°-130°	48.7	0.6
130°-140°	24.5	0.3
140°-150°	1.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2093.9	24.1
0°-40°	3434.0	39.4
0°-60°	6138.2	70.5
0°-90°	8247.5	94.7
90°-120°	382.6	4.4
90°-150°	457.7	5.3
90°-180°	458.0	5.3
0°-180°	8705.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2684	2684	2684	2684	2684	
5°	2675	2671	2671	2666	2666	255
15°	2618	2605	2587	2570	2561	740
25°	2473	2451	2407	2363	2346	1140
35°	2236	2205	2144	2078	2047	1399
45°	1924	1889	1819	1744	1713	1482
55°	1559	1524	1454	1384	1349	1394
65°	1177	1133	1054	997	958	1168
75°	821	738	654	606	571	865
85°	395	343	290	264	237	374
90°	237	215	184	167	141	135
95°	189	176	158	141	123	148
105°	141	132	119	105	97	150
115°	97	88	88	75	75	96
125°	62	53	57	48	53	54
135°	35	31	31	31	35	27
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2684.0	2684.0	2684.0	2684.0	2684.0
2.5°	2684.0	2679.6	2679.6	2679.6	2679.6
5°	2675.2	2670.8	2670.8	2666.4	2666.4
7.5°	2670.8	2662.0	2657.6	2653.2	2653.2
10°	2657.6	2648.8	2640.0	2631.3	2631.3
12.5°	2640.0	2631.3	2618.1	2600.5	2600.5
15°	2618.1	2604.9	2587.3	2569.8	2561.0
17.5°	2591.7	2578.6	2552.2	2525.8	2517.1
20°	2556.6	2539.0	2512.7	2477.5	2468.7
22.5°	2517.1	2499.5	2459.9	2424.8	2407.2
25°	2473.1	2451.2	2407.2	2363.3	2345.7
27.5°	2420.4	2398.4	2350.1	2297.4	2275.5
30°	2363.3	2336.9	2284.2	2227.1	2200.8
32.5°	2301.8	2271.1	2214.0	2152.5	2126.1
35°	2235.9	2205.2	2143.7	2077.8	2047.0
37.5°	2165.6	2134.9	2069.0	1998.7	1968.0
40°	2086.6	2055.8	1985.5	1915.2	1880.1
42.5°	2003.1	1976.7	1906.5	1831.8	1796.6
45°	1924.0	1888.9	1818.6	1743.9	1713.2
47.5°	1831.8	1805.4	1730.7	1656.1	1620.9
50°	1743.9	1713.2	1642.9	1568.2	1528.7
52.5°	1651.7	1625.3	1550.6	1476.0	1440.8
55°	1559.4	1524.3	1454.0	1383.7	1348.6
57.5°	1462.8	1432.0	1361.8	1295.9	1251.9
60°	1366.1	1335.4	1260.7	1199.2	1150.9
62.5°	1273.9	1238.8	1159.7	1093.8	1054.3
65°	1177.3	1133.3	1054.3	997.2	957.6
67.5°	1085.0	1032.3	953.2	900.5	861.0
70°	997.2	935.7	856.6	803.9	764.3
72.5°	909.3	834.6	751.2	702.8	667.7
75°	821.4	738.0	654.5	606.2	571.1
77.5°	733.6	637.0	553.5	514.0	478.8
80°	628.2	535.9	456.8	421.7	386.6
82.5°	509.6	434.9	369.0	333.8	307.5
85°	395.3	342.6	289.9	263.6	237.2
87.5°	307.5	268.0	228.4	206.5	184.5
90°	237.2	215.2	184.5	166.9	140.6
92.5°	206.5	188.9	166.9	149.4	127.4
95°	188.9	175.7	158.1	140.6	123.0
97.5°	171.3	162.5	145.0	131.8	114.2
100°	162.5	149.4	136.2	123.0	109.8
102.5°	153.7	140.6	127.4	114.2	105.4
105°	140.6	131.8	118.6	105.4	96.6
107.5°	131.8	118.6	109.8	96.6	92.2
110°	118.6	109.8	101.0	92.2	87.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.4	101.0	92.2	83.5	79.1
115°	96.6	87.9	87.9	74.7	74.7
117.5°	87.9	79.1	79.1	70.3	70.3
120°	74.7	70.3	70.3	61.5	61.5
122.5°	65.9	61.5	61.5	57.1	57.1
125°	61.5	52.7	57.1	48.3	52.7
127.5°	52.7	48.3	48.3	43.9	48.3
130°	43.9	39.5	39.5	39.5	43.9
132.5°	39.5	35.1	35.1	35.1	39.5
135°	35.1	30.7	30.7	30.7	35.1
137.5°	30.7	26.4	22.0	26.4	30.7
140°	26.4	22.0	17.6	22.0	26.4
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)