

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: P384337

Luminaire Tested: **22ID-90-L850-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384337  
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: 22ID-90-L850-CFD2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

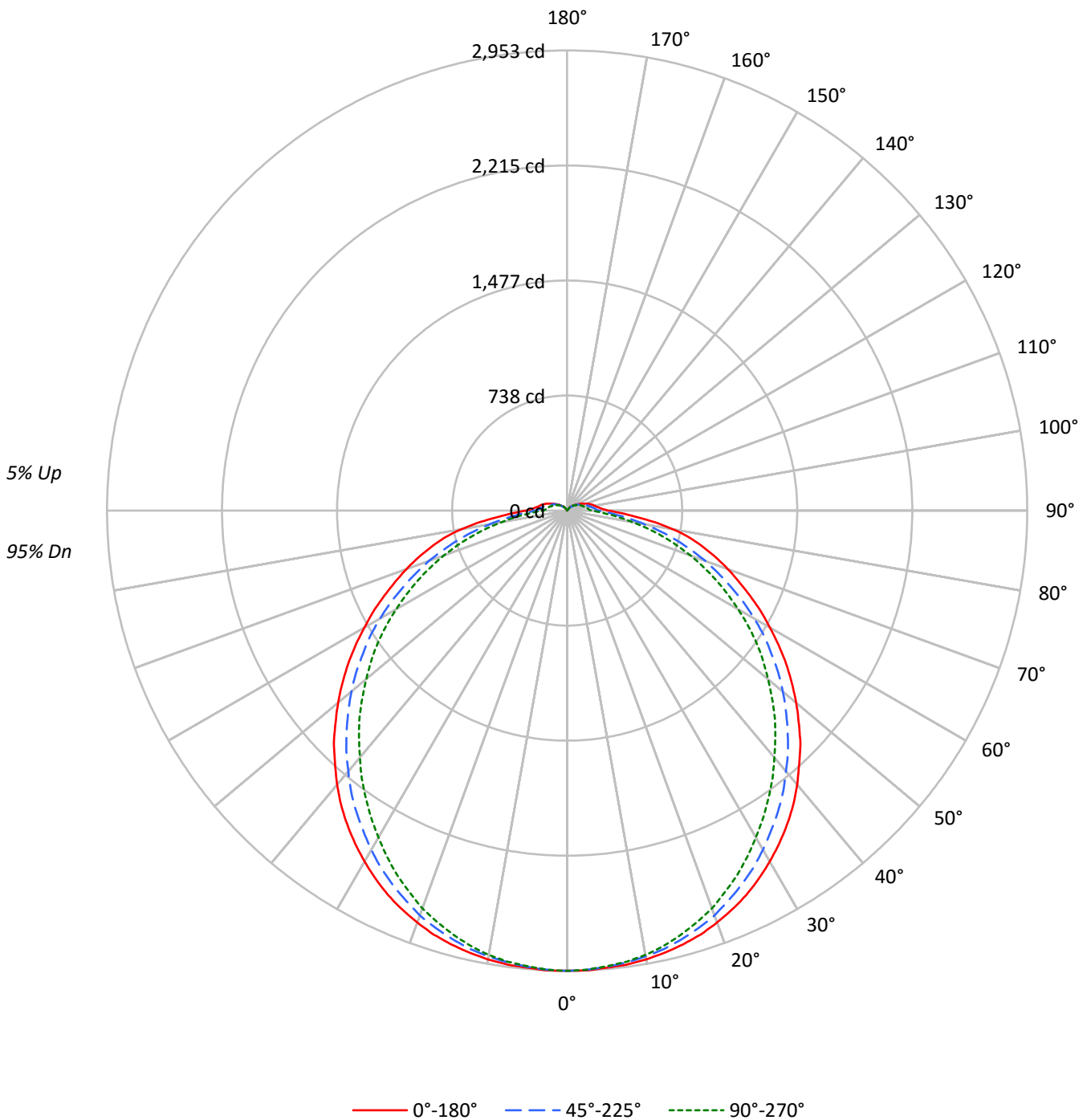
Lumens per Lamp: N/A  
Luminaire Lumens: 9579.1 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 85.5  
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°	7948	7948	7948
5°	7894	7858	7868
10°	7875	7777	7797
15°	7851	7689	7679
20°	7819	7592	7550
25°	7778	7455	7377
30°	7710	7313	7179
35°	7637	7158	6992
40°	7538	6984	6792
45°	7437	6813	6622
50°	7308	6636	6406
55°	7194	6425	6222
60°	7070	6201	5956
65°	6998	5897	5693
70°	7025	5602	5385
75°	7168	5201	4984
80°	7274	4669	4477
85°	6879	4196	4127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.5	2.9
10°-20°	803.8	8.4
20°-30°	1220.8	12.7
30°-40°	1474.6	15.4
40°-50°	1543.4	16.1
50°-60°	1432.2	15.0
60°-70°	1160.0	12.1
70°-80°	782.8	8.2
80°-90°	378.2	3.9
90°-100°	190.3	2.0
100°-110°	138.3	1.4
110°-120°	92.4	1.0
120°-130°	53.6	0.6
130°-140°	27.0	0.3
140°-150°	2.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2304.1	24.1
0°-40°	3778.8	39.4
0°-60°	6754.4	70.5
0°-90°	9075.4	94.7
90°-120°	421.0	4.4
90°-150°	503.6	5.3
90°-180°	504.0	5.3
0°-180°	9579.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2953	2953	2953	2953	2953	
5°	2944	2939	2939	2934	2934	281
15°	2881	2866	2847	2828	2818	814
25°	2721	2697	2649	2601	2581	1254
35°	2460	2426	2359	2286	2252	1539
45°	2117	2078	2001	1919	1885	1631
55°	1716	1677	1600	1523	1484	1534
65°	1295	1247	1160	1097	1054	1286
75°	904	812	720	667	628	952
85°	435	377	319	290	261	411
90°	261	237	203	184	155	149
95°	208	193	174	155	135	163
105°	155	145	130	116	106	165
115°	106	97	97	82	82	106
125°	68	58	63	53	58	59
135°	39	34	34	34	39	30
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



TEST NUMBER: P384337

CATALOG NUMBER: 22ID-90-L850-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2953.4	2953.4	2953.4	2953.4	2953.4
2.5°	2953.4	2948.6	2948.6	2948.6	2948.6
5°	2943.7	2938.9	2938.9	2934.1	2934.1
7.5°	2938.9	2929.2	2924.4	2919.6	2919.6
10°	2924.4	2914.7	2905.1	2895.4	2895.4
12.5°	2905.1	2895.4	2880.9	2861.6	2861.6
15°	2880.9	2866.4	2847.1	2827.7	2818.1
17.5°	2851.9	2837.4	2808.4	2779.4	2769.7
20°	2813.2	2793.9	2764.9	2726.2	2716.6
22.5°	2769.7	2750.4	2706.9	2668.2	2648.9
25°	2721.4	2697.2	2648.9	2600.6	2581.2
27.5°	2663.4	2639.2	2586.1	2528.0	2503.9
30°	2600.6	2571.6	2513.5	2450.7	2421.7
32.5°	2532.9	2499.0	2436.2	2368.5	2339.5
35°	2460.4	2426.5	2358.9	2286.4	2252.5
37.5°	2383.0	2349.2	2276.7	2199.4	2165.5
40°	2296.0	2262.2	2184.9	2107.5	2068.8
42.5°	2204.2	2175.2	2097.8	2015.7	1977.0
45°	2117.2	2078.5	2001.2	1919.0	1885.2
47.5°	2015.7	1986.7	1904.5	1822.3	1783.7
50°	1919.0	1885.2	1807.8	1725.6	1682.1
52.5°	1817.5	1788.5	1706.3	1624.1	1585.5
55°	1716.0	1677.3	1600.0	1522.6	1484.0
57.5°	1609.6	1575.8	1498.5	1426.0	1377.6
60°	1503.3	1469.5	1387.3	1319.6	1266.4
62.5°	1401.8	1363.1	1276.1	1203.6	1160.1
65°	1295.4	1247.1	1160.1	1097.3	1053.8
67.5°	1193.9	1135.9	1048.9	990.9	947.4
70°	1097.3	1029.6	942.6	884.6	841.1
72.5°	1000.6	918.4	826.6	773.4	734.7
75°	903.9	812.1	720.2	667.1	628.4
77.5°	807.2	700.9	609.1	565.5	526.9
80°	691.2	589.7	502.7	464.0	425.4
82.5°	560.7	478.5	406.0	367.4	338.4
85°	435.0	377.0	319.0	290.0	261.0
87.5°	338.4	294.9	251.4	227.2	203.0
90°	261.0	236.9	203.0	183.7	154.7
92.5°	227.2	207.9	183.7	164.3	140.2
95°	207.9	193.3	174.0	154.7	135.3
97.5°	188.5	178.8	159.5	145.0	125.7
100°	178.8	164.3	149.8	135.3	120.8
102.5°	169.2	154.7	140.2	125.7	116.0
105°	154.7	145.0	130.5	116.0	106.3
107.5°	145.0	130.5	120.8	106.3	101.5
110°	130.5	120.8	111.2	101.5	96.7



TEST NUMBER: P384337

CATALOG NUMBER: 22ID-90-L850-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	116.0	111.2	101.5	91.8	87.0
115°	106.3	96.7	96.7	82.2	82.2
117.5°	96.7	87.0	87.0	77.3	77.3
120°	82.2	77.3	77.3	67.7	67.7
122.5°	72.5	67.7	67.7	62.8	62.8
125°	67.7	58.0	62.8	53.2	58.0
127.5°	58.0	53.2	53.2	48.3	53.2
130°	48.3	43.5	43.5	43.5	48.3
132.5°	43.5	38.7	38.7	38.7	43.5
135°	38.7	33.8	33.8	33.8	38.7
137.5°	33.8	29.0	24.2	29.0	33.8
140°	29.0	24.2	19.3	24.2	29.0
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)