

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: P384381

Luminaire Tested: **24ID-80-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384381
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-80-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

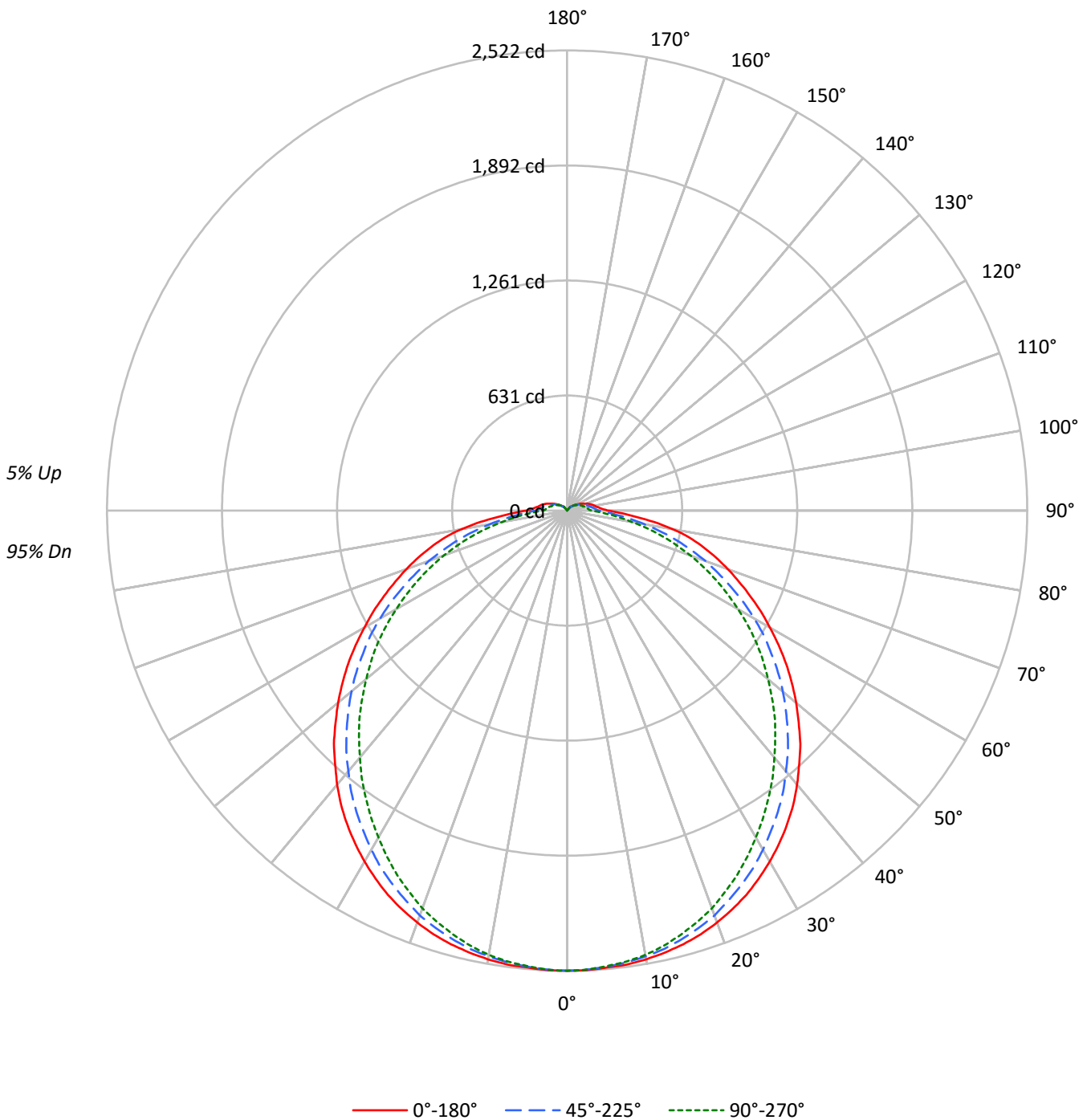
Lumens per Lamp: N/A
Luminaire Lumens: 8180.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77
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°	3393	3393	3393
5°	3383	3364	3360
10°	3387	3337	3329
15°	3389	3308	3279
20°	3388	3275	3224
25°	3384	3225	3150
30°	3369	3173	3065
35°	3353	3116	2985
40°	3327	3051	2900
45°	3303	2988	2828
50°	3268	2924	2735
55°	3244	2846	2656
60°	3222	2765	2543
65°	3233	2651	2431
70°	3307	2548	2299
75°	3473	2404	2128
80°	3700	2216	1911
85°	3885	2092	1762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	2.9
10°-20°	686.4	8.4
20°-30°	1042.5	12.7
30°-40°	1259.3	15.4
40°-50°	1318.0	16.1
50°-60°	1223.0	15.0
60°-70°	990.6	12.1
70°-80°	668.5	8.2
80°-90°	323.0	3.9
90°-100°	162.5	2.0
100°-110°	118.1	1.4
110°-120°	78.9	1.0
120°-130°	45.8	0.6
130°-140°	23.1	0.3
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1967.6	24.1
0°-40°	3226.9	39.4
0°-60°	5767.9	70.5
0°-90°	7750.0	94.7
90°-120°	359.5	4.4
90°-150°	430.1	5.3
90°-180°	430.0	5.3
0°-180°	8180.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2522	2522	2522	2522	2522	
5°	2514	2510	2510	2506	2506	240
15°	2460	2448	2431	2415	2406	695
25°	2324	2303	2262	2221	2204	1071
35°	2101	2072	2014	1952	1924	1314
45°	1808	1775	1709	1639	1610	1393
55°	1465	1432	1366	1300	1267	1310
65°	1106	1065	991	937	900	1098
75°	772	694	615	570	537	813
85°	372	322	272	248	223	351
90°	223	202	173	157	132	127
95°	178	165	149	132	116	139
105°	132	124	112	99	91	141
115°	91	83	83	70	70	90
125°	58	50	54	45	50	51
135°	33	29	29	29	33	26
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°	2522.1	2522.1	2522.1	2522.1	2522.1
2.5°	2522.1	2518.0	2518.0	2518.0	2518.0
5°	2513.8	2509.7	2509.7	2505.6	2505.6
7.5°	2509.7	2501.4	2497.3	2493.2	2493.2
10°	2497.3	2489.1	2480.8	2472.5	2472.5
12.5°	2480.8	2472.5	2460.2	2443.7	2443.7
15°	2460.2	2447.8	2431.3	2414.8	2406.5
17.5°	2435.4	2423.0	2398.2	2373.5	2365.2
20°	2402.4	2385.9	2361.1	2328.1	2319.8
22.5°	2365.2	2348.7	2311.6	2278.5	2262.0
25°	2323.9	2303.3	2262.0	2220.8	2204.2
27.5°	2274.4	2253.8	2208.4	2158.8	2138.2
30°	2220.8	2196.0	2146.4	2092.8	2068.0
32.5°	2163.0	2134.1	2080.4	2022.6	1997.8
35°	2101.0	2072.1	2014.4	1952.4	1923.5
37.5°	2035.0	2006.1	1944.2	1878.1	1849.2
40°	1960.7	1931.8	1865.8	1799.7	1766.7
42.5°	1882.3	1857.5	1791.5	1721.3	1688.3
45°	1808.0	1774.9	1708.9	1638.7	1609.8
47.5°	1721.3	1696.5	1626.3	1556.2	1523.2
50°	1638.7	1609.8	1543.8	1473.6	1436.5
52.5°	1552.0	1527.3	1457.1	1386.9	1353.9
55°	1465.4	1432.3	1366.3	1300.3	1267.2
57.5°	1374.6	1345.7	1279.6	1217.7	1176.4
60°	1283.7	1254.8	1184.7	1126.9	1081.5
62.5°	1197.1	1164.0	1089.7	1027.8	990.7
65°	1106.2	1065.0	990.7	937.0	899.9
67.5°	1019.6	970.0	895.7	846.2	809.0
70°	937.0	879.2	804.9	755.4	718.2
72.5°	854.5	784.3	705.9	660.4	627.4
75°	771.9	693.5	615.0	569.6	536.6
77.5°	689.3	598.5	520.1	483.0	449.9
80°	590.3	503.6	429.3	396.3	363.2
82.5°	478.8	408.7	346.7	313.7	288.9
85°	371.5	322.0	272.4	247.7	222.9
87.5°	288.9	251.8	214.6	194.0	173.4
90°	222.9	202.3	173.4	156.9	132.1
92.5°	194.0	177.5	156.9	140.3	119.7
95°	177.5	165.1	148.6	132.1	115.6
97.5°	161.0	152.7	136.2	123.8	107.3
100°	152.7	140.3	128.0	115.6	103.2
102.5°	144.5	132.1	119.7	107.3	99.1
105°	132.1	123.8	111.5	99.1	90.8
107.5°	123.8	111.5	103.2	90.8	86.7
110°	111.5	103.2	94.9	86.7	82.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.1	94.9	86.7	78.4	74.3
115°	90.8	82.6	82.6	70.2	70.2
117.5°	82.6	74.3	74.3	66.0	66.0
120°	70.2	66.0	66.0	57.8	57.8
122.5°	61.9	57.8	57.8	53.7	53.7
125°	57.8	49.5	53.7	45.4	49.5
127.5°	49.5	45.4	45.4	41.3	45.4
130°	41.3	37.2	37.2	37.2	41.3
132.5°	37.2	33.0	33.0	33.0	37.2
135°	33.0	28.9	28.9	28.9	33.0
137.5°	28.9	24.8	20.6	24.8	28.9
140°	24.8	20.6	16.5	20.6	24.8
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)