

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: P384384

Luminaire Tested: **24ID-85-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384384  
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-L840-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

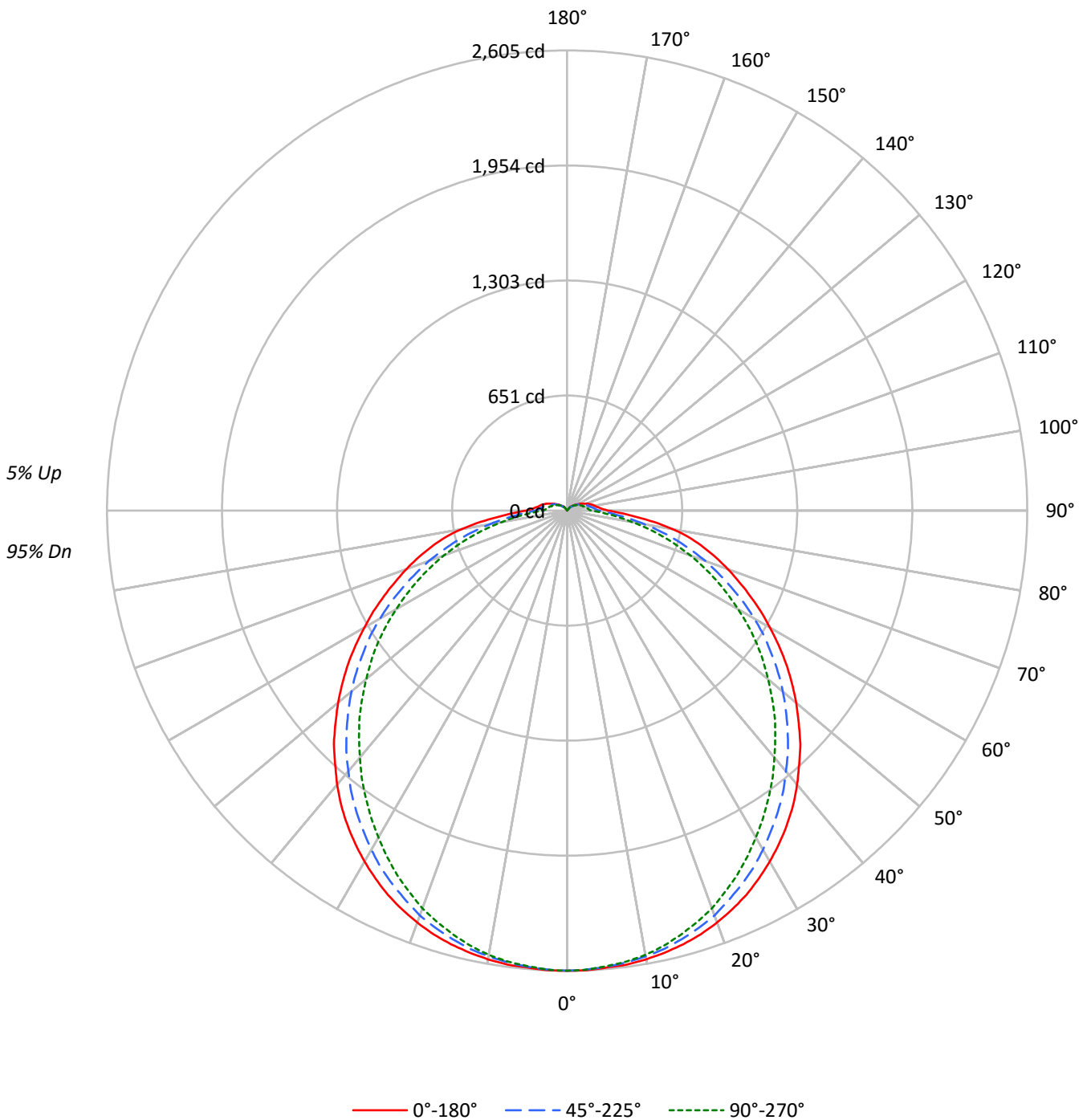
Lumens per Lamp: N/A  
Luminaire Lumens: 8449.2 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

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°	3505	3505	3505
5°	3494	3474	3470
10°	3499	3447	3439
15°	3501	3417	3387
20°	3500	3383	3330
25°	3496	3331	3254
30°	3480	3277	3166
35°	3464	3218	3083
40°	3437	3151	2996
45°	3411	3086	2921
50°	3375	3020	2825
55°	3351	2939	2744
60°	3328	2856	2627
65°	3339	2739	2511
70°	3416	2632	2375
75°	3587	2483	2198
80°	3821	2288	1974
85°	4012	2161	1820



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.5	2.9
10°-20°	709.0	8.4
20°-30°	1076.8	12.7
30°-40°	1300.7	15.4
40°-50°	1361.4	16.1
50°-60°	1263.2	15.0
60°-70°	1023.2	12.1
70°-80°	690.5	8.2
80°-90°	333.6	3.9
90°-100°	167.8	2.0
100°-110°	122.0	1.4
110°-120°	81.5	1.0
120°-130°	47.3	0.6
130°-140°	23.8	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°	2032.4	24.1
0°-40°	3333.1	39.4
0°-60°	5957.6	70.5
0°-90°	8004.9	94.7
90°-120°	371.3	4.4
90°-150°	444.2	5.3
90°-180°	444.0	5.3
0°-180°	8449.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2605	2605	2605	2605	2605	
5°	2596	2592	2592	2588	2588	247
15°	2541	2528	2511	2494	2486	718
25°	2400	2379	2336	2294	2277	1106
35°	2170	2140	2081	2017	1987	1358
45°	1867	1833	1765	1693	1663	1439
55°	1514	1480	1411	1343	1309	1353
65°	1143	1100	1023	968	930	1134
75°	797	716	635	588	554	840
85°	384	333	281	256	230	363
90°	230	209	179	162	136	131
95°	183	170	154	136	119	144
105°	136	128	115	102	94	146
115°	94	85	85	72	72	93
125°	60	51	55	47	51	52
135°	34	30	30	30	34	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°	2605.0	2605.0	2605.0	2605.0	2605.0
2.5°	2605.0	2600.8	2600.8	2600.8	2600.8
5°	2596.5	2592.3	2592.3	2588.0	2588.0
7.5°	2592.3	2583.7	2579.5	2575.2	2575.2
10°	2579.5	2570.9	2562.4	2553.9	2553.9
12.5°	2562.4	2553.9	2541.1	2524.0	2524.0
15°	2541.1	2528.3	2511.2	2494.2	2485.7
17.5°	2515.5	2502.7	2477.1	2451.6	2443.0
20°	2481.4	2464.3	2438.8	2404.7	2396.1
22.5°	2443.0	2426.0	2387.6	2353.5	2336.4
25°	2400.4	2379.1	2336.4	2293.8	2276.8
27.5°	2349.2	2327.9	2281.0	2229.9	2208.5
30°	2293.8	2268.2	2217.1	2161.6	2136.1
32.5°	2234.1	2204.3	2148.8	2089.2	2063.6
35°	2170.2	2140.3	2080.6	2016.7	1986.8
37.5°	2101.9	2072.1	2008.1	1939.9	1910.1
40°	2025.2	1995.4	1927.1	1858.9	1824.8
42.5°	1944.2	1918.6	1850.4	1777.9	1743.8
45°	1867.4	1833.3	1765.1	1692.6	1662.8
47.5°	1777.9	1752.3	1679.9	1607.4	1573.3
50°	1692.6	1662.8	1594.6	1522.1	1483.7
52.5°	1603.1	1577.5	1505.0	1432.6	1398.5
55°	1513.6	1479.5	1411.2	1343.0	1308.9
57.5°	1419.8	1389.9	1321.7	1257.8	1215.1
60°	1326.0	1296.1	1223.6	1164.0	1117.1
62.5°	1236.4	1202.3	1125.6	1061.6	1023.3
65°	1142.6	1100.0	1023.3	967.8	929.5
67.5°	1053.1	1001.9	925.2	874.0	835.7
70°	967.8	908.1	831.4	780.2	741.9
72.5°	882.6	810.1	729.1	682.2	648.1
75°	797.3	716.3	635.3	588.4	554.3
77.5°	712.0	618.2	537.2	498.8	464.7
80°	609.7	520.2	443.4	409.3	375.2
82.5°	494.6	422.1	358.1	324.0	298.5
85°	383.7	332.6	281.4	255.8	230.2
87.5°	298.5	260.1	221.7	200.4	179.1
90°	230.2	208.9	179.1	162.0	136.4
92.5°	200.4	183.3	162.0	145.0	123.6
95°	183.3	170.5	153.5	136.4	119.4
97.5°	166.3	157.8	140.7	127.9	110.9
100°	157.8	145.0	132.2	119.4	106.6
102.5°	149.2	136.4	123.6	110.9	102.3
105°	136.4	127.9	115.1	102.3	93.8
107.5°	127.9	115.1	106.6	93.8	89.5
110°	115.1	106.6	98.1	89.5	85.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	102.3	98.1	89.5	81.0	76.7
115°	93.8	85.3	85.3	72.5	72.5
117.5°	85.3	76.7	76.7	68.2	68.2
120°	72.5	68.2	68.2	59.7	59.7
122.5°	64.0	59.7	59.7	55.4	55.4
125°	59.7	51.2	55.4	46.9	51.2
127.5°	51.2	46.9	46.9	42.6	46.9
130°	42.6	38.4	38.4	38.4	42.6
132.5°	38.4	34.1	34.1	34.1	38.4
135°	34.1	29.8	29.8	29.8	34.1
137.5°	29.8	25.6	21.3	25.6	29.8
140°	25.6	21.3	17.1	21.3	25.6
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)