

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: P384376

Luminaire Tested: **24ID-75-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384376  
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-75-L840-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

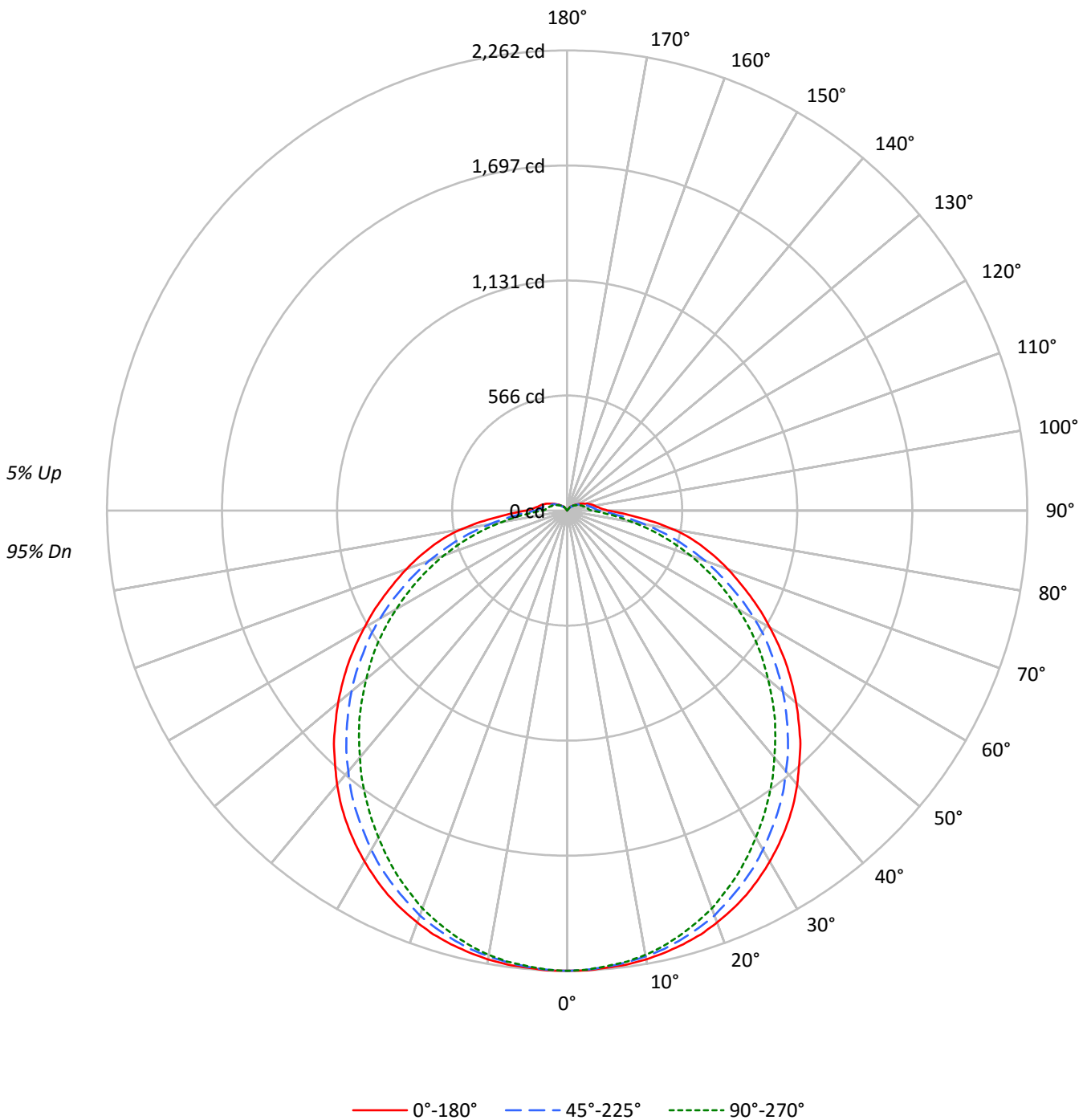
Lumens per Lamp: N/A  
Luminaire Lumens: 7337.4 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 70.8  
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



TEST NUMBER: P384376  
CATALOG NUMBER: 24ID-75-L840-CFD2

### Luminous Intensity Polar Plot





TEST NUMBER: P384376

CATALOG NUMBER: 24ID-75-L840-CFD2

**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°	3044	3044	3044
5°	3034	3017	3013
10°	3038	2994	2986
15°	3040	2967	2941
20°	3039	2938	2892
25°	3036	2893	2826
30°	3022	2846	2750
35°	3008	2795	2678
40°	2985	2737	2601
45°	2962	2680	2536
50°	2931	2622	2453
55°	2910	2553	2383
60°	2890	2480	2281
65°	2900	2378	2180
70°	2967	2285	2062
75°	3115	2157	1909
80°	3319	1988	1714
85°	3484	1877	1581



TEST NUMBER: P384376

CATALOG NUMBER: 24ID-75-L840-CFD2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	2.9
10°-20°	615.7	8.4
20°-30°	935.1	12.7
30°-40°	1129.5	15.4
40°-50°	1182.2	16.1
50°-60°	1097.0	15.0
60°-70°	888.6	12.1
70°-80°	599.6	8.2
80°-90°	289.7	3.9
90°-100°	145.7	2.0
100°-110°	106.0	1.4
110°-120°	70.8	1.0
120°-130°	41.0	0.6
130°-140°	20.7	0.3
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1764.9	24.1
0°-40°	2894.5	39.4
0°-60°	5173.7	70.5
0°-90°	6951.6	94.7
90°-120°	322.5	4.4
90°-150°	385.8	5.3
90°-180°	386.0	5.3
0°-180°	7337.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2262	2262	2262	2262	2262	
5°	2255	2251	2251	2247	2247	215
15°	2207	2196	2181	2166	2159	623
25°	2084	2066	2029	1992	1977	961
35°	1885	1859	1807	1751	1725	1179
45°	1622	1592	1533	1470	1444	1249
55°	1314	1285	1226	1166	1137	1175
65°	992	955	889	840	807	985
75°	692	622	552	511	481	729
85°	333	289	244	222	200	315
90°	200	181	156	141	118	114
95°	159	148	133	118	104	125
105°	118	111	100	89	82	126
115°	82	74	74	63	63	81
125°	52	44	48	41	44	45
135°	30	26	26	26	30	23
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: P384376

CATALOG NUMBER: 24ID-75-L840-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2262.3	2262.3	2262.3	2262.3	2262.3
2.5°	2262.3	2258.6	2258.6	2258.6	2258.6
5°	2254.9	2251.2	2251.2	2247.4	2247.4
7.5°	2251.2	2243.7	2240.0	2236.3	2236.3
10°	2240.0	2232.6	2225.2	2217.8	2217.8
12.5°	2225.2	2217.8	2206.7	2191.9	2191.9
15°	2206.7	2195.6	2180.8	2166.0	2158.6
17.5°	2184.5	2173.4	2151.2	2129.0	2121.6
20°	2154.9	2140.1	2117.9	2088.2	2080.8
22.5°	2121.6	2106.8	2073.4	2043.8	2029.0
25°	2084.5	2066.0	2029.0	1992.0	1977.2
27.5°	2040.1	2021.6	1980.9	1936.4	1917.9
30°	1992.0	1969.8	1925.3	1877.2	1855.0
32.5°	1940.1	1914.2	1866.1	1814.2	1792.0
35°	1884.6	1858.7	1806.8	1751.3	1725.4
37.5°	1825.4	1799.4	1743.9	1684.7	1658.7
40°	1758.7	1732.8	1673.6	1614.3	1584.7
42.5°	1688.4	1666.1	1606.9	1544.0	1514.3
45°	1621.7	1592.1	1532.9	1469.9	1444.0
47.5°	1544.0	1521.7	1458.8	1395.9	1366.2
50°	1469.9	1444.0	1384.8	1321.8	1288.5
52.5°	1392.2	1369.9	1307.0	1244.1	1214.4
55°	1314.4	1284.8	1225.5	1166.3	1136.7
57.5°	1232.9	1207.0	1147.8	1092.3	1055.2
60°	1151.5	1125.6	1062.6	1010.8	970.1
62.5°	1073.7	1044.1	977.5	921.9	888.6
65°	992.3	955.3	888.6	840.5	807.2
67.5°	914.5	870.1	803.5	759.0	725.7
70°	840.5	788.6	722.0	677.6	644.2
72.5°	766.4	703.5	633.1	592.4	562.8
75°	692.4	622.0	551.7	511.0	481.3
77.5°	618.3	536.9	466.5	433.2	403.6
80°	529.5	451.7	385.1	355.4	325.8
82.5°	429.5	366.6	311.0	281.4	259.2
85°	333.2	288.8	244.4	222.2	199.9
87.5°	259.2	225.9	192.5	174.0	155.5
90°	199.9	181.4	155.5	140.7	118.5
92.5°	174.0	159.2	140.7	125.9	107.4
95°	159.2	148.1	133.3	118.5	103.7
97.5°	144.4	137.0	122.2	111.1	96.3
100°	137.0	125.9	114.8	103.7	92.6
102.5°	129.6	118.5	107.4	96.3	88.9
105°	118.5	111.1	100.0	88.9	81.5
107.5°	111.1	100.0	92.6	81.5	77.8
110°	100.0	92.6	85.2	77.8	74.1



TEST NUMBER: P384376

CATALOG NUMBER: 24ID-75-L840-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	88.9	85.2	77.8	70.3	66.6
115°	81.5	74.1	74.1	62.9	62.9
117.5°	74.1	66.6	66.6	59.2	59.2
120°	62.9	59.2	59.2	51.8	51.8
122.5°	55.5	51.8	51.8	48.1	48.1
125°	51.8	44.4	48.1	40.7	44.4
127.5°	44.4	40.7	40.7	37.0	40.7
130°	37.0	33.3	33.3	33.3	37.0
132.5°	33.3	29.6	29.6	29.6	33.3
135°	29.6	25.9	25.9	25.9	29.6
137.5°	25.9	22.2	18.5	22.2	25.9
140°	22.2	18.5	14.8	18.5	22.2
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)