

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: P384320

Luminaire Tested: **22ID-70-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384320  
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-70-L840-CFD2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

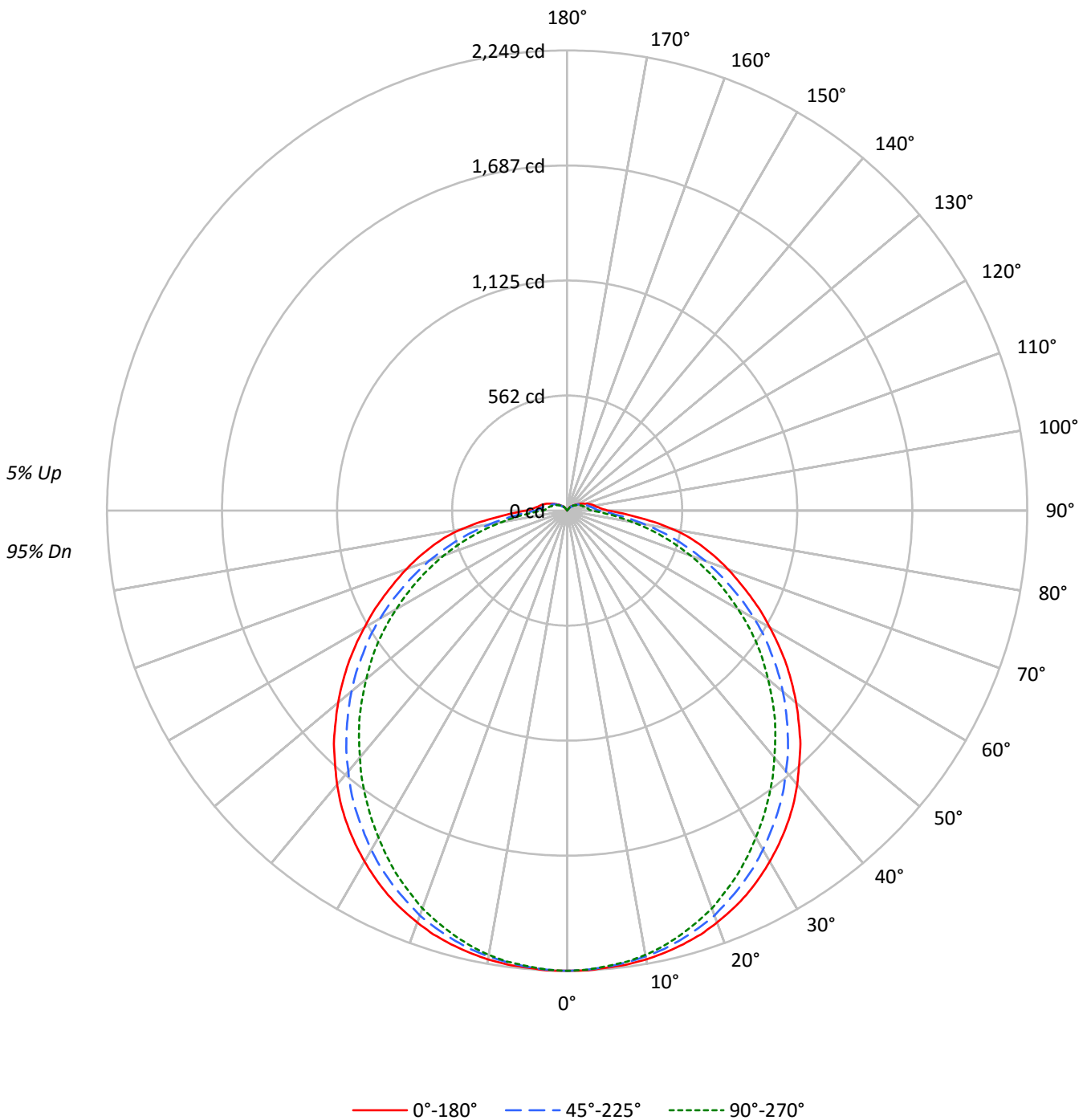
Lumens per Lamp: N/A  
Luminaire Lumens: 7295.5 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P384320  
CATALOG NUMBER: 22ID-70-L840-CFD2

### Luminous Intensity Polar Plot





TEST NUMBER: P384320

CATALOG NUMBER: 22ID-70-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°	6053	6053	6053
5°	6012	5985	5993
10°	5998	5923	5938
15°	5979	5856	5849
20°	5955	5782	5751
25°	5924	5678	5619
30°	5872	5569	5468
35°	5816	5452	5325
40°	5741	5319	5173
45°	5665	5189	5043
50°	5566	5054	4879
55°	5479	4893	4738
60°	5385	4723	4536
65°	5330	4491	4335
70°	5350	4267	4101
75°	5459	3961	3796
80°	5539	3557	3410
85°	5239	3197	3144



TEST NUMBER: P384320

CATALOG NUMBER: 22ID-70-L840-CFD2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	2.9
10°-20°	612.2	8.4
20°-30°	929.8	12.7
30°-40°	1123.1	15.4
40°-50°	1175.5	16.1
50°-60°	1090.7	15.0
60°-70°	883.5	12.1
70°-80°	596.2	8.2
80°-90°	288.1	3.9
90°-100°	144.9	2.0
100°-110°	105.3	1.4
110°-120°	70.4	1.0
120°-130°	40.8	0.6
130°-140°	20.6	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°	1754.9	24.1
0°-40°	2877.9	39.4
0°-60°	5144.1	70.5
0°-90°	6911.9	94.7
90°-120°	320.6	4.4
90°-150°	383.6	5.3
90°-180°	384.0	5.3
0°-180°	7295.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2249	2249	2249	2249	2249	
5°	2242	2238	2238	2235	2235	214
15°	2194	2183	2168	2154	2146	620
25°	2073	2054	2017	1981	1966	955
35°	1874	1848	1796	1741	1716	1172
45°	1612	1583	1524	1462	1436	1242
55°	1307	1277	1218	1160	1130	1168
65°	987	950	884	836	802	979
75°	688	618	548	508	479	725
85°	331	287	243	221	199	313
90°	199	180	155	140	118	114
95°	158	147	132	118	103	124
105°	118	110	99	88	81	126
115°	81	74	74	63	63	81
125°	52	44	48	40	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: P384320

CATALOG NUMBER: 22ID-70-L840-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2249.3	2249.3	2249.3	2249.3	2249.3
2.5°	2249.3	2245.7	2245.7	2245.7	2245.7
5°	2242.0	2238.3	2238.3	2234.6	2234.6
7.5°	2238.3	2230.9	2227.3	2223.6	2223.6
10°	2227.3	2219.9	2212.5	2205.2	2205.2
12.5°	2212.5	2205.2	2194.1	2179.4	2179.4
15°	2194.1	2183.1	2168.3	2153.6	2146.3
17.5°	2172.0	2161.0	2138.9	2116.8	2109.4
20°	2142.6	2127.9	2105.8	2076.3	2069.0
22.5°	2109.4	2094.7	2061.6	2032.1	2017.4
25°	2072.6	2054.2	2017.4	1980.6	1965.9
27.5°	2028.5	2010.0	1969.6	1925.4	1907.0
30°	1980.6	1958.5	1914.3	1866.5	1844.4
32.5°	1929.1	1903.3	1855.4	1803.9	1781.8
35°	1873.8	1848.1	1796.5	1741.3	1715.5
37.5°	1814.9	1789.2	1733.9	1675.0	1649.3
40°	1748.7	1722.9	1664.0	1605.1	1575.6
42.5°	1678.7	1656.6	1597.7	1535.1	1505.7
45°	1612.5	1583.0	1524.1	1461.5	1435.7
47.5°	1535.1	1513.1	1450.5	1387.9	1358.4
50°	1461.5	1435.7	1376.8	1314.3	1281.1
52.5°	1384.2	1362.1	1299.5	1237.0	1207.5
55°	1306.9	1277.4	1218.5	1159.6	1130.2
57.5°	1225.9	1200.1	1141.2	1086.0	1049.2
60°	1144.9	1119.1	1056.6	1005.0	964.5
62.5°	1067.6	1038.2	971.9	916.7	883.5
65°	986.6	949.8	883.5	835.7	802.5
67.5°	909.3	865.1	798.9	754.7	721.6
70°	835.7	784.1	717.9	673.7	640.6
72.5°	762.1	699.5	629.5	589.0	559.6
75°	688.4	618.5	548.5	508.0	478.6
77.5°	614.8	533.8	463.9	430.7	401.3
80°	526.4	449.1	382.9	353.4	324.0
82.5°	427.0	364.5	309.2	279.8	257.7
85°	331.3	287.1	243.0	220.9	198.8
87.5°	257.7	224.6	191.4	173.0	154.6
90°	198.8	180.4	154.6	139.9	117.8
92.5°	173.0	158.3	139.9	125.2	106.8
95°	158.3	147.3	132.5	117.8	103.1
97.5°	143.6	136.2	121.5	110.4	95.7
100°	136.2	125.2	114.1	103.1	92.0
102.5°	128.8	117.8	106.8	95.7	88.4
105°	117.8	110.4	99.4	88.4	81.0
107.5°	110.4	99.4	92.0	81.0	77.3
110°	99.4	92.0	84.7	77.3	73.6



TEST NUMBER: P384320

CATALOG NUMBER: 22ID-70-L840-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	88.4	84.7	77.3	69.9	66.3
115°	81.0	73.6	73.6	62.6	62.6
117.5°	73.6	66.3	66.3	58.9	58.9
120°	62.6	58.9	58.9	51.5	51.5
122.5°	55.2	51.5	51.5	47.9	47.9
125°	51.5	44.2	47.9	40.5	44.2
127.5°	44.2	40.5	40.5	36.8	40.5
130°	36.8	33.1	33.1	33.1	36.8
132.5°	33.1	29.5	29.5	29.5	33.1
135°	29.5	25.8	25.8	25.8	29.5
137.5°	25.8	22.1	18.4	22.1	25.8
140°	22.1	18.4	14.7	18.4	22.1
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)