

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: P384324

Luminaire Tested: **22ID-75-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384324  
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-75-L840-CFD2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

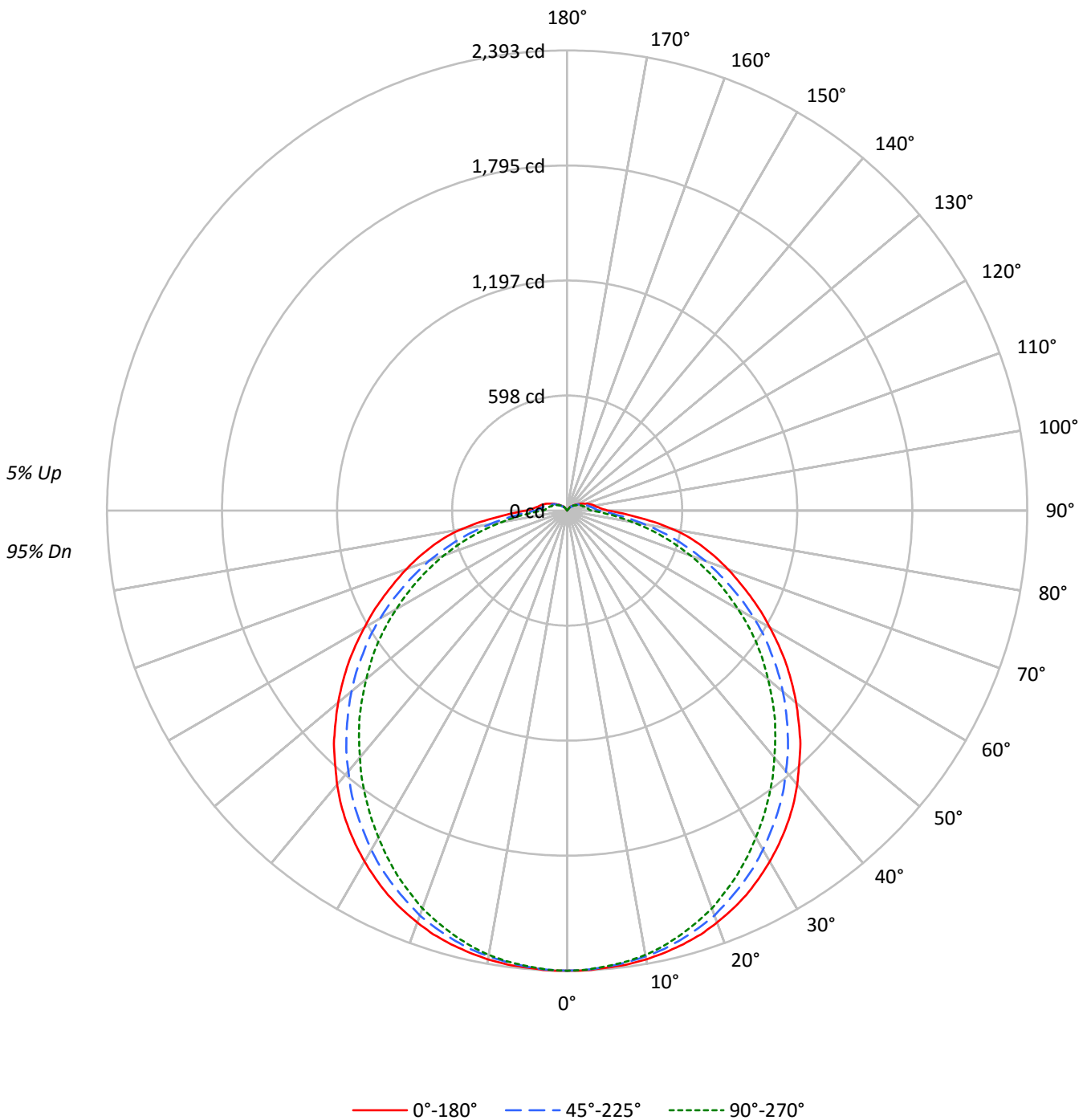
Lumens per Lamp: N/A  
Luminaire Lumens: 7762.2 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 66.8  
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: P384324  
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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°	6440	6440	6440
5°	6397	6367	6376
10°	6381	6302	6318
15°	6362	6231	6223
20°	6336	6152	6118
25°	6303	6041	5978
30°	6247	5926	5818
35°	6188	5801	5666
40°	6108	5659	5504
45°	6027	5521	5366
50°	5922	5377	5191
55°	5830	5206	5042
60°	5729	5025	4826
65°	5670	4778	4613
70°	5692	4540	4363
75°	5809	4214	4038
80°	5894	3784	3627
85°	5574	3401	3344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.5	2.9
10°-20°	651.3	8.4
20°-30°	989.3	12.7
30°-40°	1194.9	15.4
40°-50°	1250.7	16.1
50°-60°	1160.5	15.0
60°-70°	940.0	12.1
70°-80°	634.3	8.2
80°-90°	306.5	3.9
90°-100°	154.2	2.0
100°-110°	112.1	1.4
110°-120°	74.9	1.0
120°-130°	43.4	0.6
130°-140°	21.9	0.3
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1867.1	24.1
0°-40°	3062.0	39.4
0°-60°	5473.2	70.5
0°-90°	7354.1	94.7
90°-120°	341.1	4.4
90°-150°	408.1	5.3
90°-180°	408.0	5.3
0°-180°	7762.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2393	2393	2393	2393	2393	
5°	2385	2382	2382	2378	2378	227
15°	2334	2323	2307	2291	2284	660
25°	2205	2186	2146	2107	2092	1016
35°	1994	1966	1912	1853	1825	1247
45°	1716	1684	1622	1555	1528	1322
55°	1390	1359	1296	1234	1202	1243
65°	1050	1011	940	889	854	1042
75°	732	658	584	540	509	772
85°	352	306	258	235	212	333
90°	212	192	164	149	125	121
95°	168	157	141	125	110	132
105°	125	118	106	94	86	134
115°	86	78	78	67	67	86
125°	55	47	51	43	47	48
135°	31	27	27	27	31	24
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°	2393.2	2393.2	2393.2	2393.2	2393.2
2.5°	2393.2	2389.3	2389.3	2389.3	2389.3
5°	2385.4	2381.5	2381.5	2377.6	2377.6
7.5°	2381.5	2373.6	2369.7	2365.8	2365.8
10°	2369.7	2361.9	2354.1	2346.2	2346.2
12.5°	2354.1	2346.2	2334.5	2318.8	2318.8
15°	2334.5	2322.7	2307.1	2291.4	2283.6
17.5°	2311.0	2299.2	2275.7	2252.2	2244.4
20°	2279.6	2264.0	2240.5	2209.1	2201.3
22.5°	2244.4	2228.7	2193.5	2162.1	2146.5
25°	2205.2	2185.6	2146.5	2107.3	2091.6
27.5°	2158.2	2138.6	2095.5	2048.5	2029.0
30°	2107.3	2083.8	2036.8	1985.9	1962.4
32.5°	2052.5	2025.0	1974.1	1919.3	1895.8
35°	1993.7	1966.3	1911.5	1852.7	1825.3
37.5°	1931.0	1903.6	1844.9	1782.2	1754.8
40°	1860.5	1833.1	1770.4	1707.8	1676.4
42.5°	1786.1	1762.6	1699.9	1633.4	1602.0
45°	1715.6	1684.3	1621.6	1555.0	1527.6
47.5°	1633.4	1609.9	1543.3	1476.7	1445.3
50°	1555.0	1527.6	1464.9	1398.3	1363.1
52.5°	1472.8	1449.3	1382.7	1316.1	1284.7
55°	1390.5	1359.2	1296.5	1233.8	1202.5
57.5°	1304.3	1276.9	1214.2	1155.5	1116.3
60°	1218.2	1190.7	1124.2	1069.3	1026.2
62.5°	1135.9	1104.6	1034.1	975.3	940.1
65°	1049.7	1010.6	940.1	889.1	853.9
67.5°	967.5	920.5	850.0	803.0	767.7
70°	889.1	834.3	763.8	716.8	681.5
72.5°	810.8	744.2	669.8	626.7	595.4
75°	732.5	658.0	583.6	540.5	509.2
77.5°	654.1	568.0	493.5	458.3	426.9
80°	560.1	477.9	407.4	376.0	344.7
82.5°	454.4	387.8	329.0	297.7	274.2
85°	352.5	305.5	258.5	235.0	211.5
87.5°	274.2	238.9	203.7	184.1	164.5
90°	211.5	191.9	164.5	148.8	125.3
92.5°	184.1	168.4	148.8	133.2	113.6
95°	168.4	156.7	141.0	125.3	109.7
97.5°	152.8	144.9	129.3	117.5	101.8
100°	144.9	133.2	121.4	109.7	97.9
102.5°	137.1	125.3	113.6	101.8	94.0
105°	125.3	117.5	105.8	94.0	86.2
107.5°	117.5	105.8	97.9	86.2	82.3
110°	105.8	97.9	90.1	82.3	78.3



TEST NUMBER: P384324

CATALOG NUMBER: 22ID-75-L840-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94.0	90.1	82.3	74.4	70.5
115°	86.2	78.3	78.3	66.6	66.6
117.5°	78.3	70.5	70.5	62.7	62.7
120°	66.6	62.7	62.7	54.8	54.8
122.5°	58.8	54.8	54.8	50.9	50.9
125°	54.8	47.0	50.9	43.1	47.0
127.5°	47.0	43.1	43.1	39.2	43.1
130°	39.2	35.3	35.3	35.3	39.2
132.5°	35.3	31.3	31.3	31.3	35.3
135°	31.3	27.4	27.4	27.4	31.3
137.5°	27.4	23.5	19.6	23.5	27.4
140°	23.5	19.6	15.7	19.6	23.5
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)