

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: P384372

Luminaire Tested: **24ID-70-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384372  
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-70-L840-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

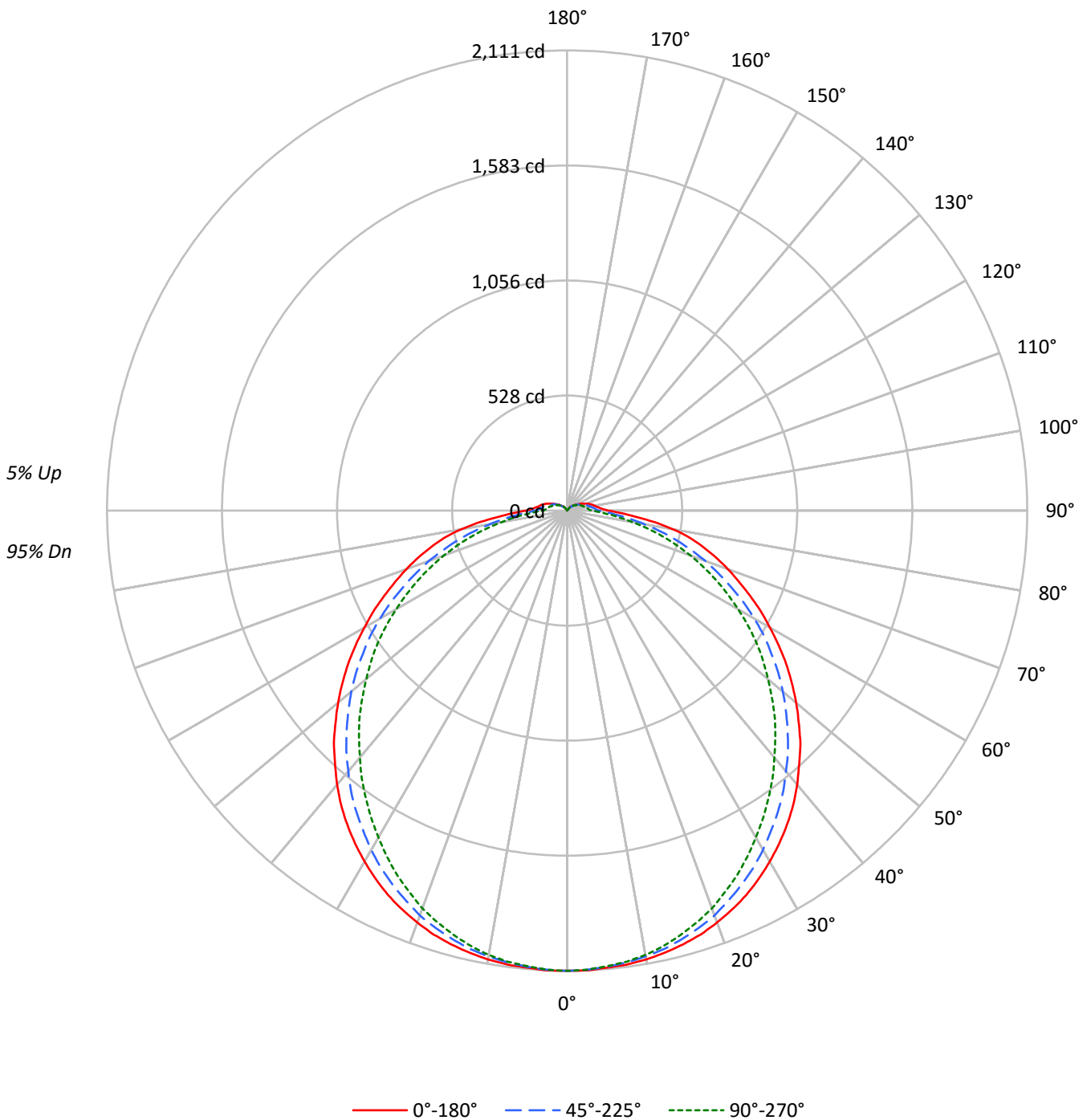
Lumens per Lamp: N/A  
Luminaire Lumens: 6847.8 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 65.7  
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°	2841	2841	2841
5°	2832	2816	2812
10°	2835	2794	2787
15°	2837	2769	2745
20°	2837	2742	2699
25°	2833	2700	2637
30°	2821	2656	2566
35°	2807	2608	2499
40°	2786	2554	2428
45°	2765	2501	2367
50°	2736	2447	2290
55°	2716	2382	2224
60°	2697	2314	2129
65°	2707	2220	2035
70°	2769	2133	1925
75°	2907	2013	1781
80°	3097	1855	1600
85°	3252	1752	1475



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.8	2.9
10°-20°	574.6	8.4
20°-30°	872.7	12.7
30°-40°	1054.2	15.4
40°-50°	1103.4	16.1
50°-60°	1023.8	15.0
60°-70°	829.3	12.1
70°-80°	559.6	8.2
80°-90°	270.4	3.9
90°-100°	136.0	2.0
100°-110°	98.9	1.4
110°-120°	66.1	1.0
120°-130°	38.3	0.6
130°-140°	19.3	0.3
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1647.2	24.1
0°-40°	2701.3	39.4
0°-60°	4828.5	70.5
0°-90°	6487.7	94.7
90°-120°	301.0	4.4
90°-150°	360.1	5.3
90°-180°	360.0	5.3
0°-180°	6847.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2111	2111	2111	2111	2111	
5°	2104	2101	2101	2098	2098	201
15°	2060	2049	2035	2022	2015	582
25°	1945	1928	1894	1859	1845	896
35°	1759	1735	1686	1634	1610	1100
45°	1514	1486	1431	1372	1348	1166
55°	1227	1199	1144	1088	1061	1096
65°	926	892	829	784	753	919
75°	646	580	515	477	449	681
85°	311	270	228	207	187	294
90°	187	169	145	131	111	107
95°	149	138	124	111	97	117
105°	111	104	93	83	76	118
115°	76	69	69	59	59	76
125°	48	42	45	38	42	42
135°	28	24	24	24	28	22
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°	2111.3	2111.3	2111.3	2111.3	2111.3
2.5°	2111.3	2107.8	2107.8	2107.8	2107.8
5°	2104.4	2100.9	2100.9	2097.5	2097.5
7.5°	2100.9	2094.0	2090.6	2087.1	2087.1
10°	2090.6	2083.7	2076.8	2069.8	2069.8
12.5°	2076.8	2069.8	2059.5	2045.7	2045.7
15°	2059.5	2049.1	2035.3	2021.5	2014.6
17.5°	2038.7	2028.4	2007.6	1986.9	1980.0
20°	2011.1	1997.3	1976.5	1948.9	1942.0
22.5°	1980.0	1966.2	1935.1	1907.4	1893.6
25°	1945.4	1928.2	1893.6	1859.1	1845.2
27.5°	1904.0	1886.7	1848.7	1807.2	1789.9
30°	1859.1	1838.3	1796.9	1751.9	1731.2
32.5°	1810.7	1786.5	1741.6	1693.2	1672.5
35°	1758.8	1734.7	1686.3	1634.4	1610.3
37.5°	1703.6	1679.4	1627.5	1572.2	1548.1
40°	1641.4	1617.2	1561.9	1506.6	1479.0
42.5°	1575.7	1555.0	1499.7	1440.9	1413.3
45°	1513.5	1485.9	1430.6	1371.8	1347.6
47.5°	1440.9	1420.2	1361.5	1302.7	1275.1
50°	1371.8	1347.6	1292.4	1233.6	1202.5
52.5°	1299.3	1278.5	1219.8	1161.0	1133.4
55°	1226.7	1199.1	1143.8	1088.5	1060.8
57.5°	1150.7	1126.5	1071.2	1019.4	984.8
60°	1074.7	1050.5	991.7	943.3	905.3
62.5°	1002.1	974.4	912.2	860.4	829.3
65°	926.1	891.5	829.3	784.4	753.3
67.5°	853.5	812.0	749.8	708.4	677.3
70°	784.4	736.0	673.8	632.4	601.3
72.5°	715.3	656.5	590.9	552.9	525.2
75°	646.2	580.5	514.9	476.9	449.2
77.5°	577.1	501.0	435.4	404.3	376.6
80°	494.1	421.6	359.4	331.7	304.1
82.5°	400.8	342.1	290.3	262.6	241.9
85°	311.0	269.5	228.1	207.3	186.6
87.5°	241.9	210.8	179.7	162.4	145.1
90°	186.6	169.3	145.1	131.3	110.6
92.5°	162.4	148.6	131.3	117.5	100.2
95°	148.6	138.2	124.4	110.6	96.8
97.5°	134.8	127.9	114.0	103.7	89.8
100°	127.9	117.5	107.1	96.8	86.4
102.5°	120.9	110.6	100.2	89.8	82.9
105°	110.6	103.7	93.3	82.9	76.0
107.5°	103.7	93.3	86.4	76.0	72.6
110°	93.3	86.4	79.5	72.6	69.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	82.9	79.5	72.6	65.7	62.2
115°	76.0	69.1	69.1	58.7	58.7
117.5°	69.1	62.2	62.2	55.3	55.3
120°	58.7	55.3	55.3	48.4	48.4
122.5°	51.8	48.4	48.4	44.9	44.9
125°	48.4	41.5	44.9	38.0	41.5
127.5°	41.5	38.0	38.0	34.6	38.0
130°	34.6	31.1	31.1	31.1	34.6
132.5°	31.1	27.6	27.6	27.6	31.1
135°	27.6	24.2	24.2	24.2	27.6
137.5°	24.2	20.7	17.3	20.7	24.2
140°	20.7	17.3	13.8	17.3	20.7
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)