

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: P384356

Luminaire Tested: **24ID-50-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384356  
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-50-L840-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

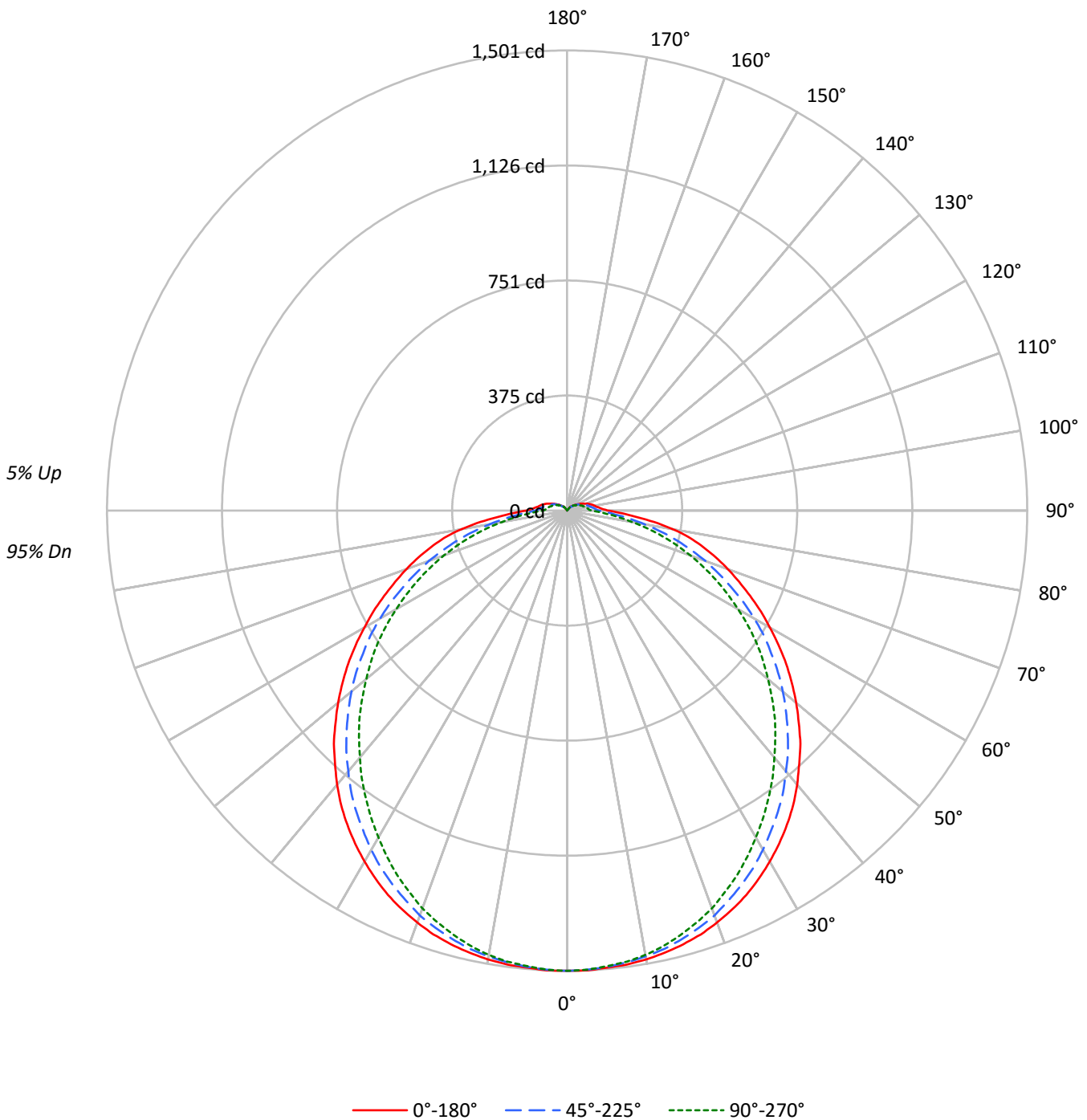
Lumens per Lamp: N/A  
Luminaire Lumens: 4869.1 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 44  
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



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2020	2020	2020
5°	2014	2002	2000
10°	2016	1987	1982
15°	2017	1969	1952
20°	2017	1950	1919
25°	2014	1920	1875
30°	2006	1889	1825
35°	1996	1855	1777
40°	1981	1816	1726
45°	1966	1778	1683
50°	1945	1740	1628
55°	1931	1694	1581
60°	1918	1646	1514
65°	1924	1578	1447
70°	1969	1516	1368
75°	2067	1431	1267
80°	2202	1319	1138
85°	2312	1246	1049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.1	2.9
10°-20°	408.6	8.4
20°-30°	620.6	12.7
30°-40°	749.6	15.4
40°-50°	784.5	16.1
50°-60°	728.0	15.0
60°-70°	589.6	12.1
70°-80°	397.9	8.2
80°-90°	192.3	3.9
90°-100°	96.7	2.0
100°-110°	70.3	1.4
110°-120°	47.0	1.0
120°-130°	27.2	0.6
130°-140°	13.7	0.3
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1171.2	24.1
0°-40°	1920.8	39.4
0°-60°	3433.3	70.5
0°-90°	4613.1	94.7
90°-120°	214.0	4.4
90°-150°	256.0	5.3
90°-180°	256.0	5.3
0°-180°	4869.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1496	1494	1494	1491	1491	143
15°	1464	1457	1447	1437	1432	414
25°	1383	1371	1346	1322	1312	637
35°	1251	1233	1199	1162	1145	782
45°	1076	1056	1017	975	958	829
55°	872	853	813	774	754	780
65°	658	634	590	558	536	654
75°	460	413	366	339	319	484
85°	221	192	162	147	133	209
90°	133	120	103	93	79	76
95°	106	98	88	79	69	83
105°	79	74	66	59	54	84
115°	54	49	49	42	42	54
125°	34	30	32	27	30	30
135°	20	17	17	17	20	15
145°	0	0	0	0	0	1
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°	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1501.2	1498.8	1498.8	1498.8	1498.8
5°	1496.3	1493.9	1493.9	1491.4	1491.4
7.5°	1493.9	1489.0	1486.5	1484.0	1484.0
10°	1486.5	1481.6	1476.7	1471.8	1471.8
12.5°	1476.7	1471.8	1464.4	1454.6	1454.6
15°	1464.4	1457.0	1447.2	1437.4	1432.4
17.5°	1449.6	1442.3	1427.5	1412.8	1407.9
20°	1430.0	1420.2	1405.4	1385.8	1380.8
22.5°	1407.9	1398.0	1375.9	1356.3	1346.4
25°	1383.3	1371.0	1346.4	1321.9	1312.0
27.5°	1353.8	1341.5	1314.5	1285.0	1272.7
30°	1321.9	1307.1	1277.6	1245.7	1231.0
32.5°	1287.5	1270.3	1238.3	1203.9	1189.2
35°	1250.6	1233.4	1199.0	1162.2	1145.0
37.5°	1211.3	1194.1	1157.3	1117.9	1100.7
40°	1167.1	1149.9	1110.6	1071.3	1051.6
42.5°	1120.4	1105.7	1066.3	1024.6	1004.9
45°	1076.2	1056.5	1017.2	975.4	958.2
47.5°	1024.6	1009.8	968.1	926.3	906.6
50°	975.4	958.2	918.9	877.2	855.0
52.5°	923.8	909.1	867.3	825.6	805.9
55°	872.2	852.6	813.3	774.0	754.3
57.5°	818.2	801.0	761.7	724.8	700.2
60°	764.1	746.9	705.2	670.8	643.7
62.5°	712.5	692.9	648.7	611.8	589.7
65°	658.5	633.9	589.7	557.7	535.6
67.5°	606.9	577.4	533.2	503.7	481.6
70°	557.7	523.3	479.1	449.6	427.5
72.5°	508.6	466.8	420.1	393.1	373.5
75°	459.5	412.8	366.1	339.1	319.4
77.5°	410.3	356.3	309.6	287.5	267.8
80°	351.4	299.8	255.5	235.9	216.2
82.5°	285.0	243.2	206.4	186.7	172.0
85°	221.1	191.6	162.2	147.4	132.7
87.5°	172.0	149.9	127.8	115.5	103.2
90°	132.7	120.4	103.2	93.4	78.6
92.5°	115.5	105.7	93.4	83.5	71.3
95°	105.7	98.3	88.5	78.6	68.8
97.5°	95.8	90.9	81.1	73.7	63.9
100°	90.9	83.5	76.2	68.8	61.4
102.5°	86.0	78.6	71.3	63.9	59.0
105°	78.6	73.7	66.3	59.0	54.1
107.5°	73.7	66.3	61.4	54.1	51.6
110°	66.3	61.4	56.5	51.6	49.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	59.0	56.5	51.6	46.7	44.2
115°	54.1	49.1	49.1	41.8	41.8
117.5°	49.1	44.2	44.2	39.3	39.3
120°	41.8	39.3	39.3	34.4	34.4
122.5°	36.9	34.4	34.4	31.9	31.9
125°	34.4	29.5	31.9	27.0	29.5
127.5°	29.5	27.0	27.0	24.6	27.0
130°	24.6	22.1	22.1	22.1	24.6
132.5°	22.1	19.7	19.7	19.7	22.1
135°	19.7	17.2	17.2	17.2	19.7
137.5°	17.2	14.7	12.3	14.7	17.2
140°	14.7	12.3	9.8	12.3	14.7
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)