

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: P384309

Luminaire Tested: **22ID-55-L850-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384309  
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-55-L850-CFD2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

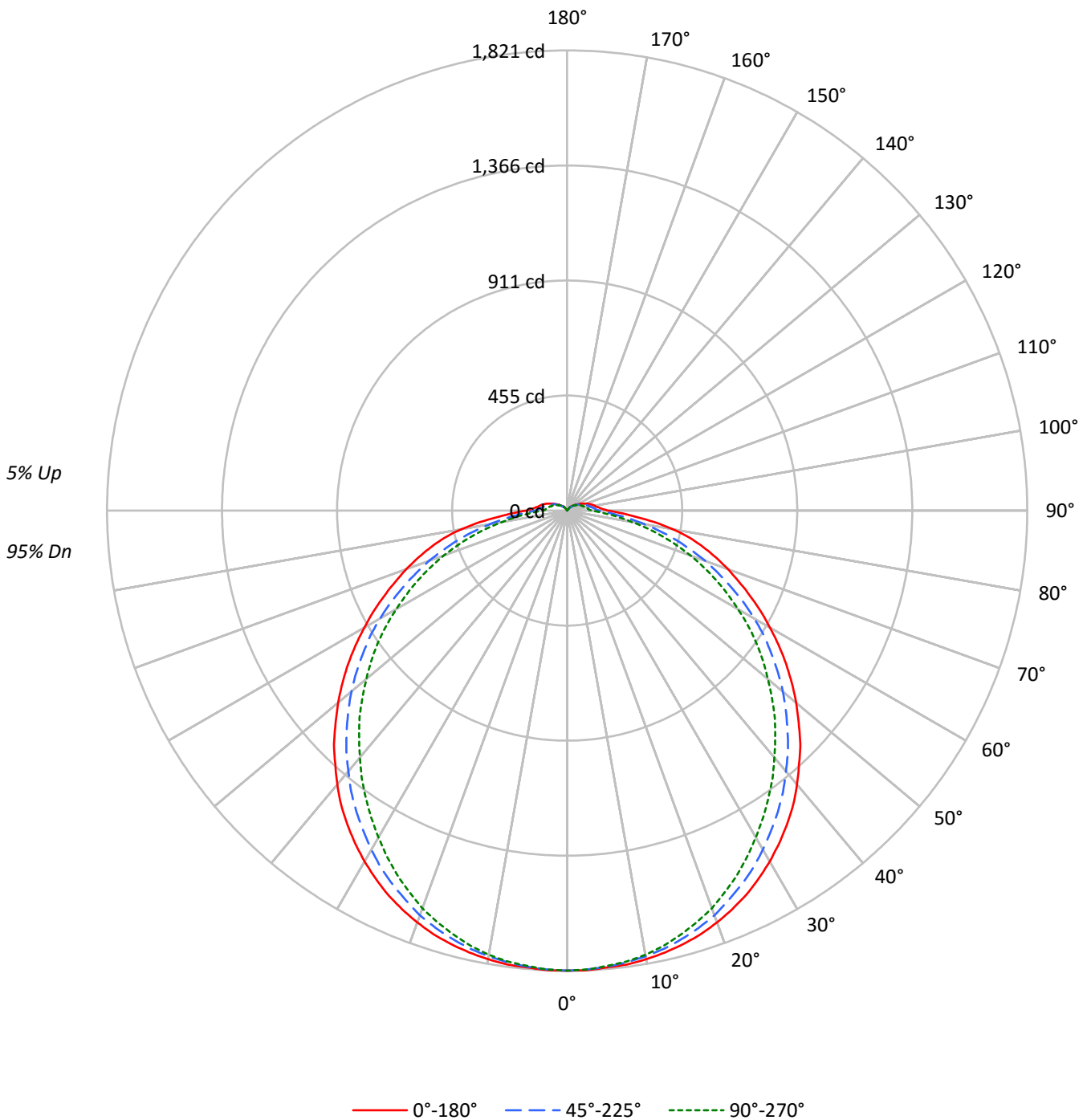
Lumens per Lamp: N/A  
Luminaire Lumens: 5905.3 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 46.3  
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	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°	4899	4899	4899
5°	4866	4844	4851
10°	4855	4794	4807
15°	4840	4740	4734
20°	4820	4680	4655
25°	4795	4596	4548
30°	4753	4508	4426
35°	4708	4413	4310
40°	4647	4306	4187
45°	4585	4200	4082
50°	4505	4091	3949
55°	4435	3961	3835
60°	4358	3822	3672
65°	4314	3635	3509
70°	4330	3454	3319
75°	4419	3206	3072
80°	4484	2879	2759
85°	4241	2588	2544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.3	2.9
10°-20°	495.5	8.4
20°-30°	752.6	12.7
30°-40°	909.1	15.4
40°-50°	951.5	16.1
50°-60°	882.9	15.0
60°-70°	715.1	12.1
70°-80°	482.6	8.2
80°-90°	233.2	3.9
90°-100°	117.3	2.0
100°-110°	85.3	1.4
110°-120°	57.0	1.0
120°-130°	33.0	0.6
130°-140°	16.7	0.3
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1420.4	24.1
0°-40°	2329.5	39.4
0°-60°	4163.9	70.5
0°-90°	5594.7	94.7
90°-120°	259.6	4.4
90°-150°	310.5	5.3
90°-180°	311.0	5.3
0°-180°	5905.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1815	1812	1812	1809	1809	173
15°	1776	1767	1755	1743	1737	502
25°	1678	1663	1633	1603	1591	773
35°	1517	1496	1454	1410	1389	949
45°	1305	1281	1234	1183	1162	1005
55°	1058	1034	986	939	915	946
65°	799	769	715	676	650	793
75°	557	501	444	411	387	587
85°	268	232	197	179	161	253
90°	161	146	125	113	95	92
95°	128	119	107	95	83	101
105°	95	89	80	72	66	102
115°	66	60	60	51	51	65
125°	42	36	39	33	36	37
135°	24	21	21	21	24	19
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°	1820.7	1820.7	1820.7	1820.7	1820.7
2.5°	1820.7	1817.7	1817.7	1817.7	1817.7
5°	1814.7	1811.7	1811.7	1808.8	1808.8
7.5°	1811.7	1805.8	1802.8	1799.8	1799.8
10°	1802.8	1796.8	1790.9	1784.9	1784.9
12.5°	1790.9	1784.9	1776.0	1764.1	1764.1
15°	1776.0	1767.0	1755.1	1743.2	1737.2
17.5°	1758.1	1749.2	1731.3	1713.4	1707.5
20°	1734.3	1722.3	1704.5	1680.6	1674.7
22.5°	1707.5	1695.5	1668.7	1644.9	1633.0
25°	1677.7	1662.8	1633.0	1603.2	1591.2
27.5°	1641.9	1627.0	1594.2	1558.5	1543.6
30°	1603.2	1585.3	1549.5	1510.8	1492.9
32.5°	1561.4	1540.6	1501.8	1460.1	1442.2
35°	1516.7	1495.9	1454.2	1409.5	1388.6
37.5°	1469.1	1448.2	1403.5	1355.8	1335.0
40°	1415.4	1394.6	1346.9	1299.2	1275.4
42.5°	1358.8	1340.9	1293.3	1242.6	1218.8
45°	1305.2	1281.3	1233.7	1183.0	1162.1
47.5°	1242.6	1224.7	1174.1	1123.4	1099.6
50°	1183.0	1162.1	1114.5	1063.8	1037.0
52.5°	1120.4	1102.5	1051.9	1001.2	977.4
55°	1057.8	1034.0	986.3	938.7	914.8
57.5°	992.3	971.4	923.8	879.1	849.3
60°	926.7	905.9	855.2	813.5	780.7
62.5°	864.2	840.3	786.7	742.0	715.2
65°	798.6	768.8	715.2	676.4	649.6
67.5°	736.0	700.3	646.6	610.9	584.0
70°	676.4	634.7	581.1	545.3	518.5
72.5°	616.8	566.2	509.6	476.8	452.9
75°	557.2	500.6	444.0	411.2	387.4
77.5°	497.6	432.1	375.5	348.6	324.8
80°	426.1	363.5	309.9	286.1	262.2
82.5°	345.7	295.0	250.3	226.5	208.6
85°	268.2	232.4	196.7	178.8	160.9
87.5°	208.6	181.8	155.0	140.1	125.2
90°	160.9	146.0	125.2	113.2	95.4
92.5°	140.1	128.1	113.2	101.3	86.4
95°	128.1	119.2	107.3	95.4	83.4
97.5°	116.2	110.3	98.3	89.4	77.5
100°	110.3	101.3	92.4	83.4	74.5
102.5°	104.3	95.4	86.4	77.5	71.5
105°	95.4	89.4	80.5	71.5	65.6
107.5°	89.4	80.5	74.5	65.6	62.6
110°	80.5	74.5	68.5	62.6	59.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	71.5	68.5	62.6	56.6	53.6
115°	65.6	59.6	59.6	50.7	50.7
117.5°	59.6	53.6	53.6	47.7	47.7
120°	50.7	47.7	47.7	41.7	41.7
122.5°	44.7	41.7	41.7	38.7	38.7
125°	41.7	35.8	38.7	32.8	35.8
127.5°	35.8	32.8	32.8	29.8	32.8
130°	29.8	26.8	26.8	26.8	29.8
132.5°	26.8	23.8	23.8	23.8	26.8
135°	23.8	20.9	20.9	20.9	23.8
137.5°	20.9	17.9	14.9	17.9	20.9
140°	17.9	14.9	11.9	14.9	17.9
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)