

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: P384081

Luminaire Tested: **14ID-50-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-50-L850-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

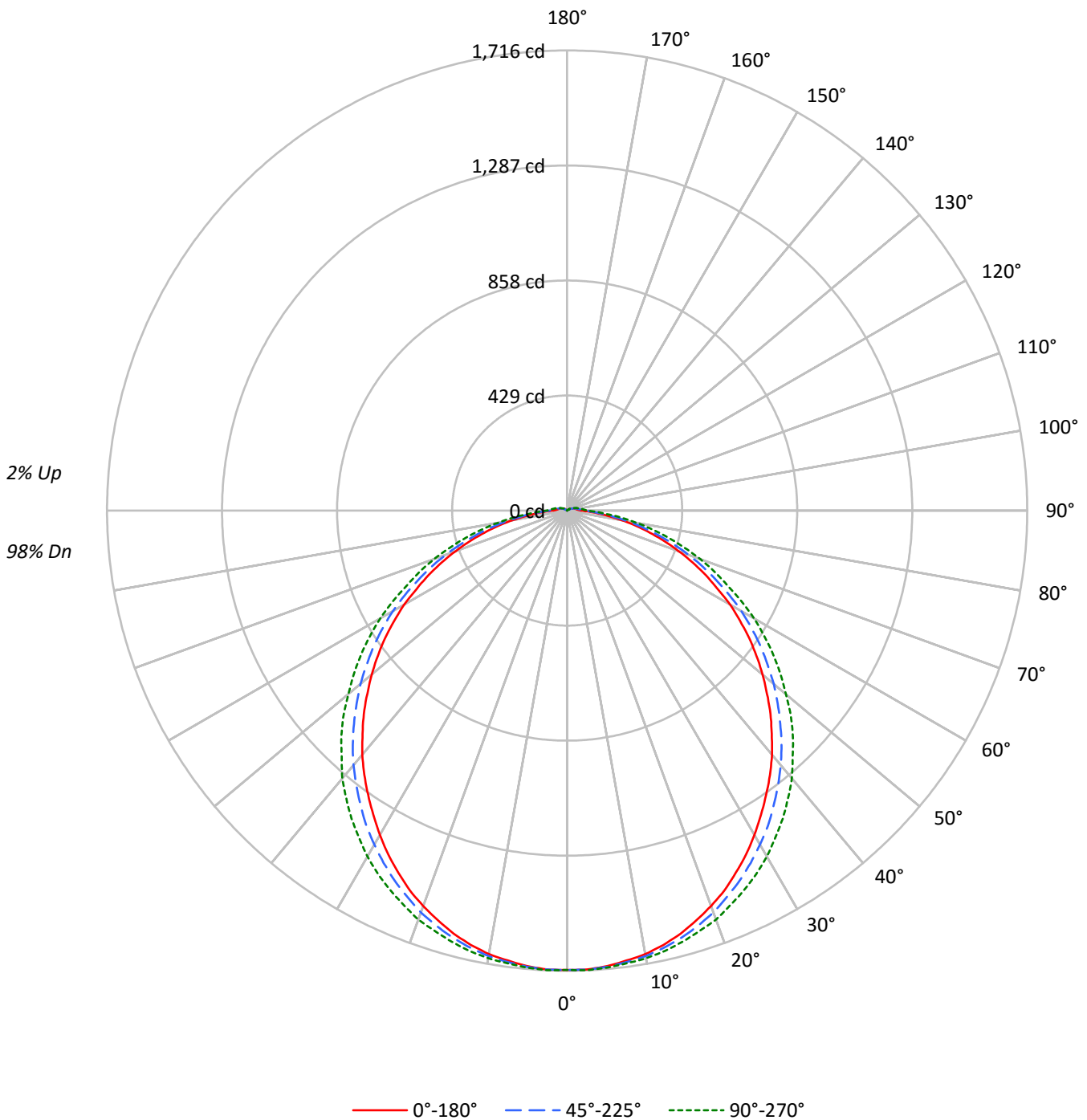
Lumens per Lamp: N/A  
Luminaire Lumens: 5073.8 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 43.1  
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	4610	4610	4610
5°	4598	4584	4587
10°	4573	4552	4565
15°	4525	4505	4535
20°	4460	4448	4511
25°	4380	4371	4463
30°	4289	4286	4416
35°	4189	4195	4352
40°	4103	4102	4282
45°	3999	3985	4184
50°	3888	3871	4056
55°	3774	3734	3937
60°	3648	3585	3787
65°	3480	3367	3557
70°	3292	3148	3376
75°	3078	2853	3101
80°	2852	2502	2762
85°	2758	2156	2360



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.2	3.2
10°-20°	465.1	9.2
20°-30°	702.2	13.8
30°-40°	841.3	16.6
40°-50°	869.9	17.1
50°-60°	787.7	15.5
60°-70°	609.5	12.0
70°-80°	374.4	7.4
80°-90°	148.8	2.9
90°-100°	54.3	1.1
100°-110°	33.4	0.7
110°-120°	17.2	0.3
120°-130°	7.3	0.1
130°-140°	0.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1329.5	26.2
0°-40°	2170.9	42.8
0°-60°	3828.4	75.5
0°-90°	4961.2	97.8
90°-120°	104.8	2.1
90°-150°	112.6	2.2
90°-180°	113.0	2.2
0°-180°	5073.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1705	1705	1708	1708	1711	162
15°	1633	1636	1649	1659	1664	460
25°	1489	1500	1523	1548	1561	686
35°	1294	1309	1343	1379	1402	810
45°	1073	1086	1124	1170	1191	827
55°	828	846	880	918	939	740
65°	571	584	612	643	658	565
75°	319	334	350	373	391	340
85°	111	118	129	142	149	110
90°	51	59	64	72	77	30
95°	39	44	49	54	59	31
105°	28	28	31	33	36	30
115°	18	15	15	18	21	18
125°	10	8	5	8	10	10
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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°	1713.1	1713.1	1713.1	1713.1	1713.1
2.5°	1713.1	1710.6	1713.1	1713.1	1715.7
5°	1705.4	1705.4	1708.0	1708.0	1710.6
7.5°	1692.6	1692.6	1697.7	1700.3	1702.9
10°	1679.7	1679.7	1687.4	1690.0	1695.1
12.5°	1659.1	1661.7	1669.4	1677.1	1682.3
15°	1633.4	1636.0	1648.8	1659.1	1664.3
17.5°	1602.5	1607.7	1623.1	1638.6	1643.7
20°	1569.1	1576.8	1594.8	1612.8	1623.1
22.5°	1533.1	1538.2	1558.8	1582.0	1592.3
25°	1489.4	1499.6	1522.8	1548.5	1561.4
27.5°	1445.6	1455.9	1481.6	1512.5	1527.9
30°	1396.8	1407.0	1437.9	1471.4	1489.4
32.5°	1345.3	1358.2	1394.2	1427.6	1445.6
35°	1293.9	1309.3	1342.7	1378.7	1401.9
37.5°	1242.4	1255.3	1291.3	1329.9	1353.0
40°	1188.4	1201.3	1239.8	1278.4	1304.2
42.5°	1129.2	1144.7	1183.3	1224.4	1245.0
45°	1072.6	1085.5	1124.1	1170.4	1191.0
47.5°	1010.9	1028.9	1064.9	1108.7	1131.8
50°	951.7	967.2	1005.8	1046.9	1064.9
52.5°	890.0	905.4	941.5	982.6	1003.2
55°	828.3	846.3	879.7	918.3	938.9
57.5°	764.0	782.0	815.4	848.9	872.0
60°	702.2	720.2	751.1	784.5	805.1
62.5°	632.8	648.2	681.7	717.7	733.1
65°	571.0	583.9	612.2	643.1	658.5
67.5°	506.7	522.2	547.9	576.2	594.2
70°	442.4	460.4	481.0	506.7	527.3
72.5°	380.7	396.1	414.1	439.9	457.9
75°	319.0	334.4	349.8	373.0	391.0
77.5°	264.9	272.7	288.1	308.7	326.7
80°	205.8	216.1	228.9	249.5	262.4
82.5°	154.3	164.6	174.9	190.3	203.2
85°	110.6	118.3	128.6	141.5	149.2
87.5°	74.6	82.3	90.0	100.3	108.0
90°	51.4	59.2	64.3	72.0	77.2
92.5°	43.7	48.9	54.0	59.2	64.3
95°	38.6	43.7	48.9	54.0	59.2
97.5°	36.0	38.6	43.7	48.9	51.4
100°	33.4	36.0	38.6	43.7	46.3
102.5°	30.9	30.9	36.0	38.6	41.2
105°	28.3	28.3	30.9	33.4	36.0
107.5°	25.7	25.7	28.3	28.3	33.4
110°	23.2	20.6	23.2	23.2	28.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	20.6	18.0	20.6	20.6	23.2
115°	18.0	15.4	15.4	18.0	20.6
117.5°	15.4	12.9	12.9	12.9	18.0
120°	15.4	12.9	10.3	10.3	15.4
122.5°	12.9	10.3	7.7	10.3	12.9
125°	10.3	7.7	5.1	7.7	10.3
127.5°	7.7	7.7	2.6	5.1	7.7
130°	7.7	5.1	2.6	5.1	5.1
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)