

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: P384249

Luminaire Tested: **14ID-50-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384249
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: 14ID-50-L850-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

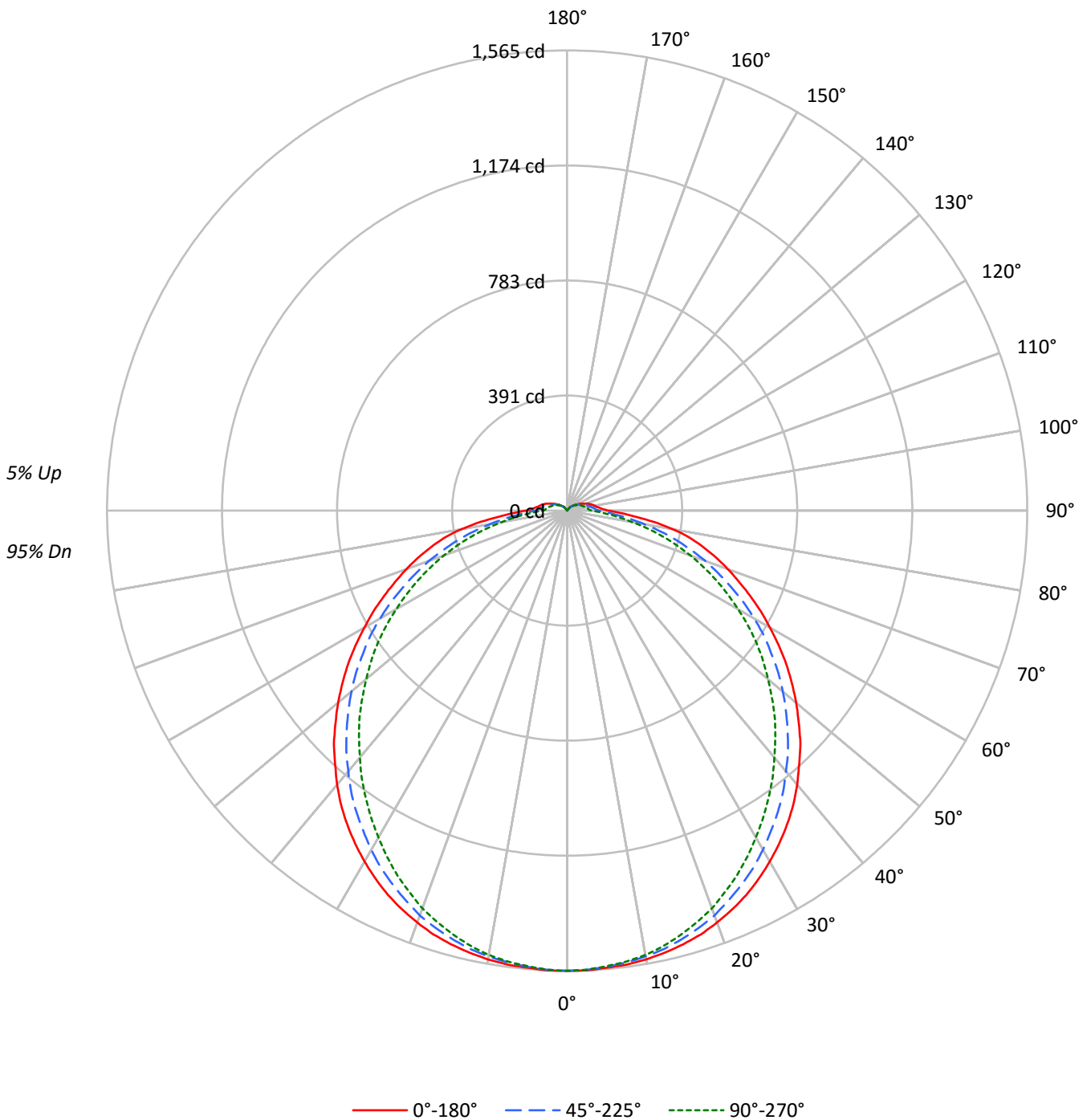
Lumens per Lamp: N/A
Luminaire Lumens: 5076.5 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

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	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°	4212	4212	4212
5°	4199	4154	4140
10°	4204	4100	4073
15°	4207	4044	3983
20°	4206	3983	3887
25°	4201	3900	3769
30°	4182	3815	3638
35°	4162	3723	3512
40°	4130	3620	3379
45°	4099	3518	3259
50°	4056	3412	3114
55°	4027	3287	2980
60°	3999	3152	2803
65°	4013	2975	2619
70°	4105	2798	2405
75°	4310	2561	2135
80°	4591	2249	1796
85°	4823	1945	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	2.9
10°-20°	426.0	8.4
20°-30°	647.0	12.7
30°-40°	781.5	15.4
40°-50°	818.0	16.1
50°-60°	759.0	15.0
60°-70°	614.8	12.1
70°-80°	414.9	8.2
80°-90°	200.4	3.9
90°-100°	100.8	2.0
100°-110°	73.3	1.4
110°-120°	49.0	1.0
120°-130°	28.4	0.6
130°-140°	14.3	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°	1221.1	24.1
0°-40°	2002.6	39.4
0°-60°	3579.5	70.5
0°-90°	4809.6	94.7
90°-120°	223.1	4.4
90°-150°	266.9	5.3
90°-180°	267.0	5.3
0°-180°	5076.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1560	1558	1558	1555	1555	149
15°	1527	1519	1509	1499	1494	431
25°	1442	1429	1404	1378	1368	665
35°	1304	1286	1250	1212	1194	816
45°	1122	1102	1060	1017	999	864
55°	909	889	848	807	786	813
65°	686	661	615	582	558	681
75°	479	430	382	354	333	505
85°	231	200	169	154	138	218
90°	138	126	108	97	82	79
95°	110	102	92	82	72	87
105°	82	77	69	62	56	88
115°	56	51	51	44	44	56
125°	36	31	33	28	31	31
135°	20	18	18	18	20	16
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°	1565.2	1565.2	1565.2	1565.2	1565.2
2.5°	1565.2	1562.6	1562.6	1562.6	1562.6
5°	1560.1	1557.5	1557.5	1554.9	1554.9
7.5°	1557.5	1552.4	1549.8	1547.2	1547.2
10°	1549.8	1544.7	1539.6	1534.4	1534.4
12.5°	1539.6	1534.4	1526.8	1516.5	1516.5
15°	1526.8	1519.1	1508.8	1498.6	1493.5
17.5°	1511.4	1503.7	1488.3	1473.0	1467.8
20°	1490.9	1480.6	1465.3	1444.8	1439.7
22.5°	1467.8	1457.6	1434.5	1414.0	1403.8
25°	1442.2	1429.4	1403.8	1378.2	1367.9
27.5°	1411.5	1398.7	1370.5	1339.8	1326.9
30°	1378.2	1362.8	1332.1	1298.8	1283.4
32.5°	1342.3	1324.4	1291.1	1255.2	1239.8
35°	1303.9	1286.0	1250.1	1211.7	1193.7
37.5°	1262.9	1245.0	1206.5	1165.6	1147.6
40°	1216.8	1198.9	1157.9	1116.9	1096.4
42.5°	1168.1	1152.8	1111.8	1068.2	1047.7
45°	1122.0	1101.5	1060.5	1017.0	999.1
47.5°	1068.2	1052.8	1009.3	965.7	945.3
50°	1017.0	999.1	958.1	914.5	891.5
52.5°	963.2	947.8	904.3	860.7	840.2
55°	909.4	888.9	847.9	806.9	786.4
57.5°	853.0	835.1	794.1	755.7	730.1
60°	796.7	778.7	735.2	699.3	671.2
62.5°	742.9	722.4	676.3	637.9	614.8
65°	686.5	660.9	614.8	581.5	558.4
67.5°	632.7	602.0	555.9	525.1	502.1
70°	581.5	545.6	499.5	468.8	445.7
72.5°	530.3	486.7	438.0	409.9	389.4
75°	479.0	430.4	381.7	353.5	333.0
77.5°	427.8	371.4	322.8	299.7	279.2
80°	366.3	312.5	266.4	245.9	225.4
82.5°	297.2	253.6	215.2	194.7	179.3
85°	230.6	199.8	169.1	153.7	138.3
87.5°	179.3	156.3	133.2	120.4	107.6
90°	138.3	125.5	107.6	97.3	82.0
92.5°	120.4	110.2	97.3	87.1	74.3
95°	110.2	102.5	92.2	82.0	71.7
97.5°	99.9	94.8	84.5	76.9	66.6
100°	94.8	87.1	79.4	71.7	64.0
102.5°	89.7	82.0	74.3	66.6	61.5
105°	82.0	76.9	69.2	61.5	56.4
107.5°	76.9	69.2	64.0	56.4	53.8
110°	69.2	64.0	58.9	53.8	51.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.5	58.9	53.8	48.7	46.1
115°	56.4	51.2	51.2	43.5	43.5
117.5°	51.2	46.1	46.1	41.0	41.0
120°	43.5	41.0	41.0	35.9	35.9
122.5°	38.4	35.9	35.9	33.3	33.3
125°	35.9	30.7	33.3	28.2	30.7
127.5°	30.7	28.2	28.2	25.6	28.2
130°	25.6	23.1	23.1	23.1	25.6
132.5°	23.1	20.5	20.5	20.5	23.1
135°	20.5	17.9	17.9	17.9	20.5
137.5°	17.9	15.4	12.8	15.4	17.9
140°	15.4	12.8	10.2	12.8	15.4
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)