

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: P384589

Luminaire Tested: **14ID-55-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-55-L850-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

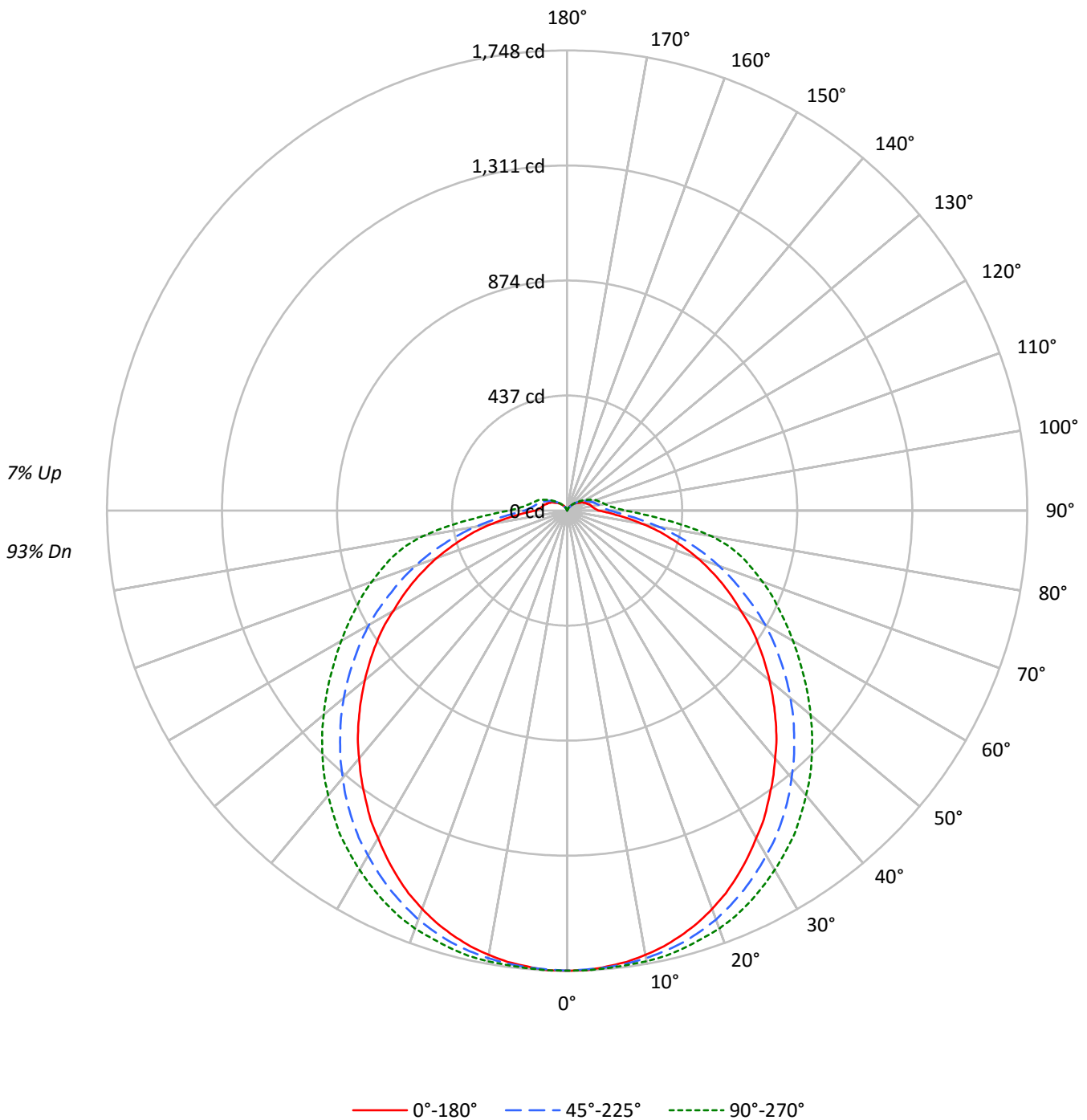
Lumens per Lamp: N/A
Luminaire Lumens: 6115.3 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 48.2
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: P384589
CATALOG NUMBER: 14ID-55-L850-CFD3

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4703	4703	4703
5°	4670	4615	4611
10°	4632	4540	4550
15°	4579	4468	4491
20°	4509	4381	4435
25°	4417	4277	4363
30°	4308	4169	4282
35°	4204	4061	4204
40°	4102	3931	4100
45°	4009	3802	4002
50°	3909	3669	3895
55°	3823	3524	3796
60°	3703	3383	3723
65°	3631	3189	3679
70°	3543	3001	3684
75°	3419	2746	3708
80°	3315	2433	3558
85°	3350	2056	2856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	2.7
10°-20°	478.8	7.8
20°-30°	731.6	12.0
30°-40°	890.5	14.6
40°-50°	941.2	15.4
50°-60°	888.5	14.5
60°-70°	747.5	12.2
70°-80°	538.9	8.8
80°-90°	284.2	4.6
90°-100°	152.1	2.5
100°-110°	115.5	1.9
110°-120°	83.8	1.4
120°-130°	52.6	0.9
130°-140°	28.4	0.5
140°-150°	12.4	0.2
150°-160°	3.3	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1376.1	22.5
0°-40°	2266.7	37.1
0°-60°	4096.4	67.0
0°-90°	5667.0	92.7
90°-120°	351.4	5.7
90°-150°	444.9	7.3
90°-180°	448.0	7.3
0°-180°	6115.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1738	1738	1742	1742	1744	165
15°	1671	1677	1699	1711	1720	471
25°	1531	1549	1589	1626	1641	705
35°	1336	1366	1427	1482	1504	837
45°	1119	1153	1220	1287	1314	864
55°	888	927	988	1061	1098	793
65°	647	683	738	830	888	639
75°	406	439	482	576	689	431
85°	186	210	235	293	357	174
90°	119	140	162	192	220	68
95°	104	119	137	156	168	83
105°	88	98	110	122	128	92
115°	70	76	85	92	98	70
125°	52	52	61	61	64	47
135°	37	34	37	37	40	28
145°	21	18	18	18	21	14
155°	9	9	3	6	9	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384589

CATALOG NUMBER: 14ID-55-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.6	1747.6	1747.6	1747.6	1747.6
2.5°	1747.6	1744.5	1744.5	1744.5	1747.6
5°	1738.4	1738.4	1741.5	1741.5	1744.5
7.5°	1729.3	1729.3	1735.4	1738.4	1741.5
10°	1714.0	1717.1	1726.2	1732.3	1738.4
12.5°	1695.7	1698.8	1714.0	1726.2	1732.3
15°	1671.3	1677.4	1698.8	1711.0	1720.1
17.5°	1643.9	1653.0	1677.4	1695.7	1704.9
20°	1610.3	1622.5	1653.0	1677.4	1689.6
22.5°	1573.7	1585.9	1622.5	1653.0	1668.3
25°	1531.0	1549.3	1589.0	1625.6	1640.8
27.5°	1485.3	1506.6	1552.4	1595.1	1610.3
30°	1436.5	1460.9	1512.7	1558.5	1576.8
32.5°	1390.7	1415.1	1473.1	1521.9	1540.2
35°	1335.8	1366.3	1427.3	1482.2	1503.6
37.5°	1284.0	1314.5	1378.5	1436.5	1457.8
40°	1229.1	1259.6	1326.7	1390.7	1412.1
42.5°	1177.2	1207.7	1274.8	1341.9	1366.3
45°	1119.3	1152.8	1219.9	1287.0	1314.5
47.5°	1061.3	1094.9	1165.0	1235.2	1262.6
50°	1003.4	1040.0	1107.1	1177.2	1207.7
52.5°	945.5	982.1	1049.1	1122.3	1152.8
55°	887.5	927.2	988.2	1061.3	1097.9
57.5°	829.6	869.2	930.2	1006.5	1043.0
60°	762.5	808.2	869.2	948.5	991.2
62.5°	704.5	744.2	805.2	887.5	939.4
65°	646.6	683.2	738.1	829.6	887.5
67.5°	585.6	625.2	677.1	762.5	841.8
70°	527.6	561.2	613.0	701.5	789.9
72.5°	466.6	500.2	549.0	640.5	738.1
75°	405.6	439.2	481.9	576.4	689.3
77.5°	350.7	378.2	417.8	509.3	631.3
80°	289.7	317.2	353.8	436.1	555.1
82.5°	234.8	259.2	289.7	362.9	457.5
85°	186.0	210.4	234.8	292.8	356.8
87.5°	149.4	167.7	192.1	234.8	277.5
90°	118.9	140.3	161.6	192.1	219.6
92.5°	109.8	128.1	146.4	170.8	189.1
95°	103.7	118.9	137.2	155.5	167.7
97.5°	97.6	112.8	128.1	146.4	155.5
100°	94.5	106.7	122.0	137.2	143.3
102.5°	91.5	100.6	115.9	128.1	137.2
105°	88.4	97.6	109.8	122.0	128.1
107.5°	82.3	91.5	103.7	115.9	122.0
110°	79.3	85.4	97.6	106.7	115.9



TEST NUMBER: P384589

CATALOG NUMBER: 14ID-55-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	76.2	82.3	91.5	100.6	106.7
115°	70.1	76.2	85.4	91.5	97.6
117.5°	67.1	70.1	79.3	82.3	88.4
120°	61.0	64.0	73.2	76.2	79.3
122.5°	54.9	57.9	67.1	67.1	73.2
125°	51.8	51.8	61.0	61.0	64.0
127.5°	48.8	48.8	54.9	54.9	57.9
130°	42.7	42.7	48.8	48.8	48.8
132.5°	39.6	36.6	42.7	42.7	45.7
135°	36.6	33.5	36.6	36.6	39.6
137.5°	30.5	30.5	33.5	30.5	33.5
140°	27.4	24.4	27.4	27.4	30.5
142.5°	24.4	21.3	24.4	21.3	24.4
145°	21.3	18.3	18.3	18.3	21.3
147.5°	18.3	15.2	15.2	15.2	18.3
150°	15.2	12.2	12.2	12.2	15.2
152.5°	12.2	9.1	6.1	9.1	12.2
155°	9.1	9.1	3.0	6.1	9.1
157.5°	6.1	6.1	0.0	3.0	6.1
160°	3.0	3.0	0.0	3.0	3.0
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)