

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: P384253

Luminaire Tested: **14ID-55-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384253
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-55-L850-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

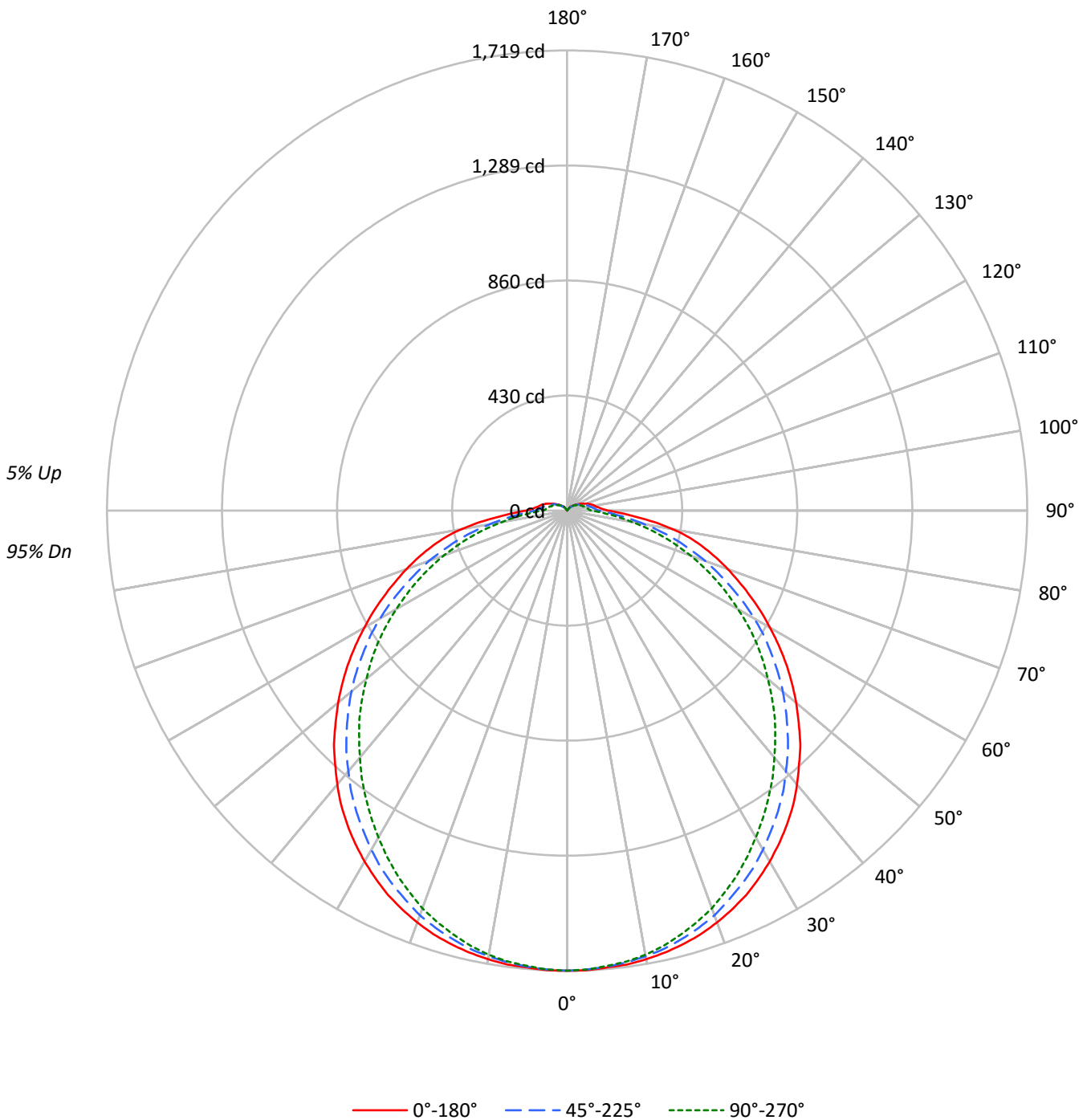
Lumens per Lamp: N/A
Luminaire Lumens: 5574.7 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48.2
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°	4625	4625	4625
5°	4611	4561	4546
10°	4617	4503	4473
15°	4619	4441	4374
20°	4618	4373	4268
25°	4613	4283	4139
30°	4592	4189	3995
35°	4571	4088	3856
40°	4535	3975	3711
45°	4501	3863	3579
50°	4454	3747	3419
55°	4422	3609	3273
60°	4392	3462	3078
65°	4407	3267	2876
70°	4508	3072	2642
75°	4733	2812	2344
80°	5043	2470	1973
85°	5296	2136	1614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	2.9
10°-20°	467.8	8.4
20°-30°	710.5	12.7
30°-40°	858.2	15.4
40°-50°	898.2	16.1
50°-60°	833.5	15.0
60°-70°	675.1	12.1
70°-80°	455.6	8.2
80°-90°	220.1	3.9
90°-100°	110.7	2.0
100°-110°	80.5	1.4
110°-120°	53.8	1.0
120°-130°	31.2	0.6
130°-140°	15.7	0.3
140°-150°	1.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1340.9	24.1
0°-40°	2199.1	39.4
0°-60°	3930.8	70.5
0°-90°	5281.6	94.7
90°-120°	245.0	4.4
90°-150°	293.1	5.3
90°-180°	293.0	5.3
0°-180°	5574.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1713	1710	1710	1708	1708	163
15°	1677	1668	1657	1646	1640	474
25°	1584	1570	1542	1513	1502	730
35°	1432	1412	1373	1331	1311	896
45°	1232	1210	1165	1117	1097	949
55°	999	976	931	886	864	893
65°	754	726	675	639	613	748
75°	526	473	419	388	366	554
85°	253	219	186	169	152	239
90°	152	138	118	107	90	87
95°	121	112	101	90	79	95
105°	90	84	76	68	62	96
115°	62	56	56	48	48	62
125°	39	34	37	31	34	35
135°	22	20	20	20	22	18
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°	1718.8	1718.8	1718.8	1718.8	1718.8
2.5°	1718.8	1716.0	1716.0	1716.0	1716.0
5°	1713.2	1710.3	1710.3	1707.5	1707.5
7.5°	1710.3	1704.7	1701.9	1699.1	1699.1
10°	1701.9	1696.3	1690.7	1685.0	1685.0
12.5°	1690.7	1685.0	1676.6	1665.3	1665.3
15°	1676.6	1668.1	1656.9	1645.6	1640.0
17.5°	1659.7	1651.3	1634.4	1617.5	1611.9
20°	1637.2	1626.0	1609.1	1586.6	1580.9
22.5°	1611.9	1600.6	1575.3	1552.8	1541.6
25°	1583.8	1569.7	1541.6	1513.4	1502.2
27.5°	1550.0	1535.9	1505.0	1471.2	1457.2
30°	1513.4	1496.6	1462.8	1426.2	1409.3
32.5°	1474.0	1454.4	1417.8	1378.4	1361.5
35°	1431.9	1412.2	1372.8	1330.6	1310.9
37.5°	1386.8	1367.2	1325.0	1279.9	1260.3
40°	1336.2	1316.5	1271.5	1226.5	1204.0
42.5°	1282.8	1265.9	1220.9	1173.0	1150.5
45°	1232.1	1209.6	1164.6	1116.8	1097.1
47.5°	1173.0	1156.2	1108.3	1060.5	1038.0
50°	1116.8	1097.1	1052.1	1004.3	978.9
52.5°	1057.7	1040.8	993.0	945.2	922.7
55°	998.6	976.1	931.1	886.1	863.6
57.5°	936.8	917.1	872.1	829.9	801.7
60°	874.9	855.2	807.4	768.0	737.0
62.5°	815.8	793.3	742.7	700.5	675.1
65°	753.9	725.8	675.1	638.6	613.2
67.5°	694.8	661.1	610.4	576.7	551.4
70°	638.6	599.2	548.5	514.8	489.5
72.5°	582.3	534.5	481.0	450.1	427.6
75°	526.0	472.6	419.1	388.2	365.7
77.5°	469.8	407.9	354.4	329.1	306.6
80°	402.3	343.2	292.6	270.1	247.6
82.5°	326.3	278.5	236.3	213.8	196.9
85°	253.2	219.4	185.7	168.8	151.9
87.5°	196.9	171.6	146.3	132.2	118.1
90°	151.9	137.8	118.1	106.9	90.0
92.5°	132.2	121.0	106.9	95.6	81.6
95°	121.0	112.5	101.3	90.0	78.8
97.5°	109.7	104.1	92.8	84.4	73.1
100°	104.1	95.6	87.2	78.8	70.3
102.5°	98.5	90.0	81.6	73.1	67.5
105°	90.0	84.4	76.0	67.5	61.9
107.5°	84.4	76.0	70.3	61.9	59.1
110°	76.0	70.3	64.7	59.1	56.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.5	64.7	59.1	53.4	50.6
115°	61.9	56.3	56.3	47.8	47.8
117.5°	56.3	50.6	50.6	45.0	45.0
120°	47.8	45.0	45.0	39.4	39.4
122.5°	42.2	39.4	39.4	36.6	36.6
125°	39.4	33.8	36.6	30.9	33.8
127.5°	33.8	30.9	30.9	28.1	30.9
130°	28.1	25.3	25.3	25.3	28.1
132.5°	25.3	22.5	22.5	22.5	25.3
135°	22.5	19.7	19.7	19.7	22.5
137.5°	19.7	16.9	14.1	16.9	19.7
140°	16.9	14.1	11.3	14.1	16.9
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)