

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: P384079

Luminaire Tested: **14ID-50-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384079
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-L835-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

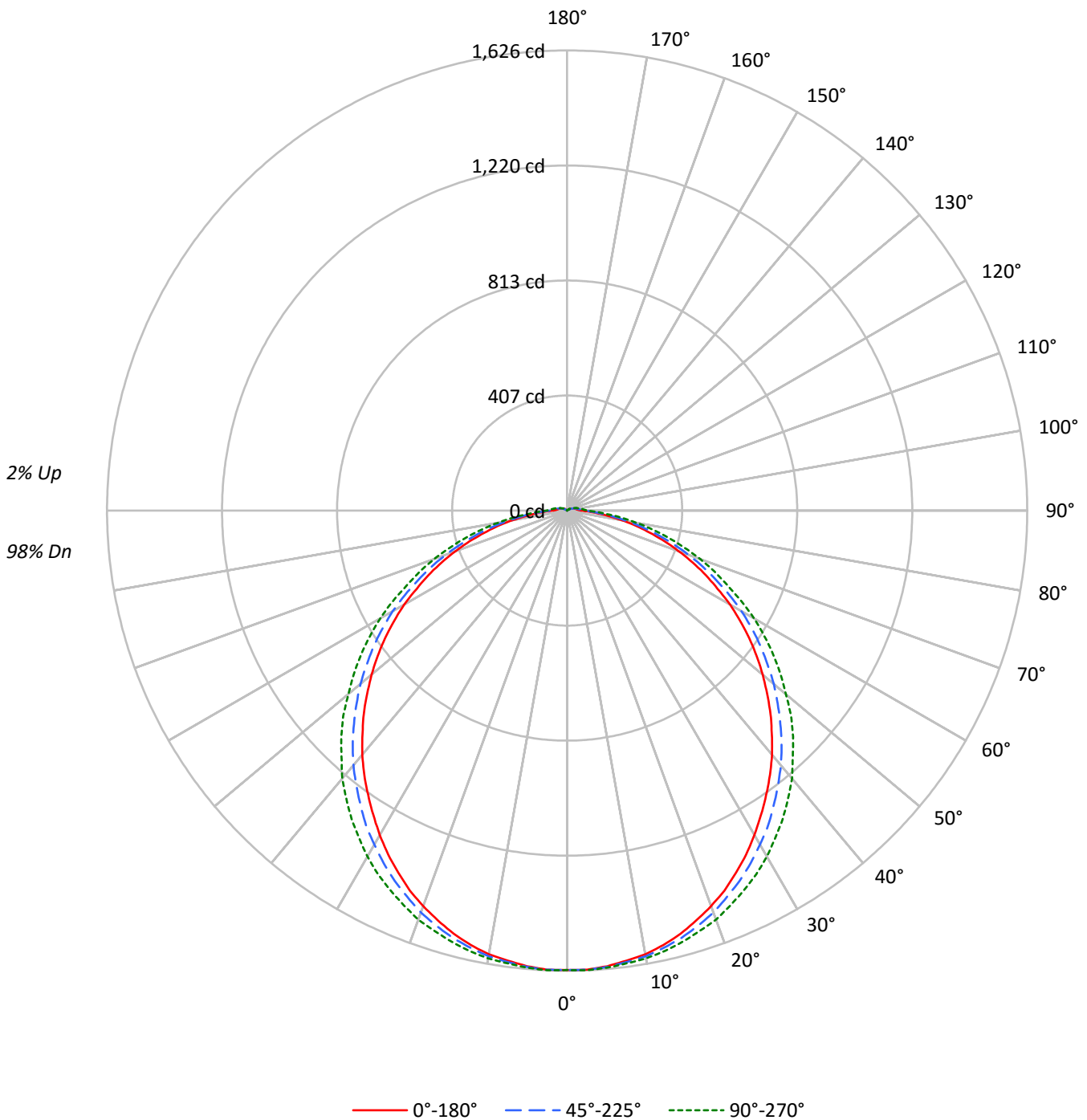
Lumens per Lamp: N/A
Luminaire Lumens: 4808.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (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



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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°	4369	4369	4369
5°	4358	4345	4347
10°	4334	4314	4326
15°	4289	4269	4298
20°	4227	4215	4275
25°	4151	4143	4229
30°	4064	4062	4185
35°	3970	3975	4124
40°	3889	3887	4058
45°	3790	3776	3965
50°	3685	3669	3843
55°	3577	3539	3731
60°	3457	3398	3589
65°	3299	3191	3372
70°	3120	2983	3199
75°	2916	2704	2939
80°	2703	2372	2617
85°	2614	2044	2236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	3.2
10°-20°	440.8	9.2
20°-30°	665.5	13.8
30°-40°	797.4	16.6
40°-50°	824.4	17.1
50°-60°	746.5	15.5
60°-70°	577.7	12.0
70°-80°	354.9	7.4
80°-90°	141.0	2.9
90°-100°	51.4	1.1
100°-110°	31.6	0.7
110°-120°	16.3	0.3
120°-130°	6.9	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°	1260.0	26.2
0°-40°	2057.4	42.8
0°-60°	3628.3	75.5
0°-90°	4701.8	97.8
90°-120°	99.3	2.1
90°-150°	106.7	2.2
90°-180°	107.0	2.2
0°-180°	4808.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1616	1616	1619	1619	1621	153
15°	1548	1550	1563	1572	1577	436
25°	1412	1421	1443	1468	1480	650
35°	1226	1241	1272	1307	1329	768
45°	1017	1029	1065	1109	1129	784
55°	785	802	834	870	890	701
65°	541	553	580	609	624	535
75°	302	317	332	354	370	322
85°	105	112	122	134	141	104
90°	49	56	61	68	73	29
95°	37	41	46	51	56	29
105°	27	27	29	32	34	28
115°	17	15	15	17	20	17
125°	10	7	5	7	10	9
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°	1623.6	1623.6	1623.6	1623.6	1623.6
2.5°	1623.6	1621.1	1623.6	1623.6	1626.0
5°	1616.3	1616.3	1618.7	1618.7	1621.1
7.5°	1604.1	1604.1	1608.9	1611.4	1613.8
10°	1591.9	1591.9	1599.2	1601.6	1606.5
12.5°	1572.4	1574.8	1582.1	1589.4	1594.3
15°	1548.0	1550.4	1562.6	1572.4	1577.3
17.5°	1518.7	1523.6	1538.2	1552.9	1557.8
20°	1487.1	1494.4	1511.4	1528.5	1538.2
22.5°	1452.9	1457.8	1477.3	1499.2	1509.0
25°	1411.5	1421.2	1443.2	1467.6	1479.7
27.5°	1370.0	1379.8	1404.2	1433.4	1448.0
30°	1323.7	1333.5	1362.7	1394.4	1411.5
32.5°	1275.0	1287.2	1321.3	1353.0	1370.0
35°	1226.2	1240.8	1272.5	1306.7	1328.6
37.5°	1177.5	1189.6	1223.8	1260.3	1282.3
40°	1126.3	1138.4	1175.0	1211.6	1236.0
42.5°	1070.2	1084.8	1121.4	1160.4	1179.9
45°	1016.6	1028.7	1065.3	1109.2	1128.7
47.5°	958.1	975.1	1009.2	1050.7	1072.6
50°	902.0	916.6	953.2	992.2	1009.2
52.5°	843.5	858.1	892.2	931.2	950.7
55°	785.0	802.0	833.7	870.3	889.8
57.5°	724.0	741.1	772.8	804.5	826.4
60°	665.5	682.6	711.8	743.5	763.0
62.5°	599.7	614.3	646.0	680.1	694.8
65°	541.2	553.4	580.2	609.4	624.1
67.5°	480.2	494.9	519.3	546.1	563.1
70°	419.3	436.4	455.9	480.2	499.7
72.5°	360.8	375.4	392.5	416.9	433.9
75°	302.3	316.9	331.5	353.5	370.5
77.5°	251.1	258.4	273.0	292.5	309.6
80°	195.0	204.8	217.0	236.5	248.7
82.5°	146.3	156.0	165.8	180.4	192.6
85°	104.8	112.1	121.9	134.1	141.4
87.5°	70.7	78.0	85.3	95.1	102.4
90°	48.8	56.1	60.9	68.3	73.1
92.5°	41.4	46.3	51.2	56.1	60.9
95°	36.6	41.4	46.3	51.2	56.1
97.5°	34.1	36.6	41.4	46.3	48.8
100°	31.7	34.1	36.6	41.4	43.9
102.5°	29.3	29.3	34.1	36.6	39.0
105°	26.8	26.8	29.3	31.7	34.1
107.5°	24.4	24.4	26.8	26.8	31.7
110°	21.9	19.5	21.9	21.9	26.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.5	17.1	19.5	19.5	21.9
115°	17.1	14.6	14.6	17.1	19.5
117.5°	14.6	12.2	12.2	12.2	17.1
120°	14.6	12.2	9.8	9.8	14.6
122.5°	12.2	9.8	7.3	9.8	12.2
125°	9.8	7.3	4.9	7.3	9.8
127.5°	7.3	7.3	2.4	4.9	7.3
130°	7.3	4.9	2.4	4.9	4.9
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)