

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: P384078

Luminaire Tested: **14ID-50-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384078
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-L830-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

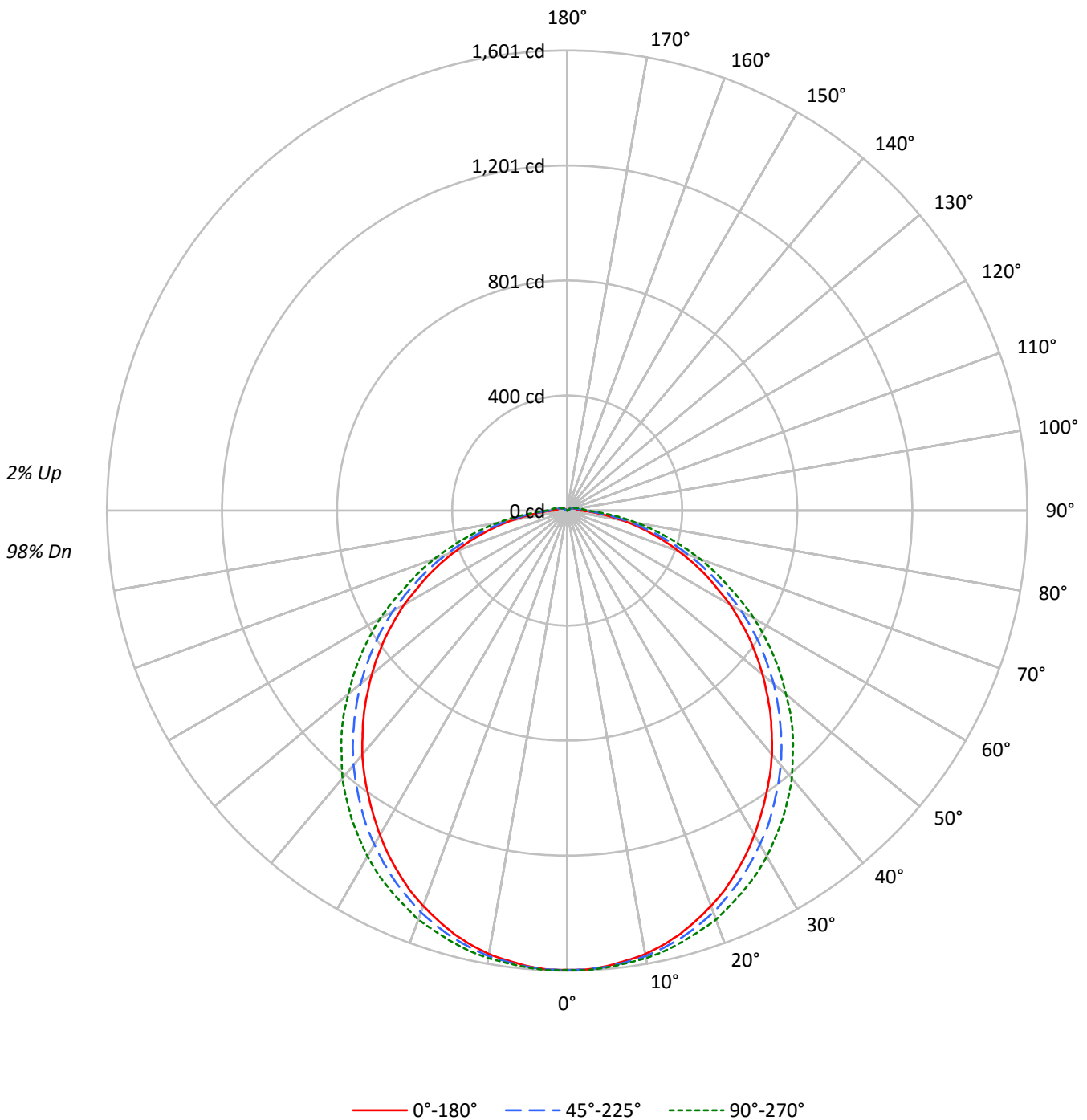
Lumens per Lamp: N/A
Luminaire Lumens: 4733.3 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

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°	4301	4301	4301
5°	4290	4277	4279
10°	4266	4246	4259
15°	4222	4202	4231
20°	4160	4149	4209
25°	4086	4078	4163
30°	4001	3998	4119
35°	3908	3913	4059
40°	3827	3827	3994
45°	3731	3717	3903
50°	3627	3611	3784
55°	3520	3484	3672
60°	3403	3345	3533
65°	3247	3141	3319
70°	3071	2936	3149
75°	2871	2662	2893
80°	2661	2335	2576
85°	2574	2012	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	3.2
10°-20°	433.9	9.2
20°-30°	655.1	13.8
30°-40°	784.9	16.6
40°-50°	811.5	17.1
50°-60°	734.9	15.5
60°-70°	568.6	12.0
70°-80°	349.3	7.4
80°-90°	138.8	2.9
90°-100°	50.6	1.1
100°-110°	31.1	0.7
110°-120°	16.0	0.3
120°-130°	6.8	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°	1240.3	26.2
0°-40°	2025.2	42.8
0°-60°	3571.5	75.5
0°-90°	4628.3	97.8
90°-120°	97.8	2.1
90°-150°	105.0	2.2
90°-180°	105.0	2.2
0°-180°	4733.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1591	1591	1593	1593	1596	151
15°	1524	1526	1538	1548	1553	430
25°	1389	1399	1421	1445	1457	640
35°	1207	1221	1253	1286	1308	756
45°	1001	1013	1049	1092	1111	771
55°	773	790	821	857	876	690
65°	533	545	571	600	614	527
75°	298	312	326	348	365	317
85°	103	110	120	132	139	103
90°	48	55	60	67	72	28
95°	36	41	46	50	55	29
105°	26	26	29	31	34	28
115°	17	14	14	17	19	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°	1598.2	1598.2	1598.2	1598.2	1598.2
2.5°	1598.2	1595.8	1598.2	1598.2	1600.6
5°	1591.0	1591.0	1593.4	1593.4	1595.8
7.5°	1579.0	1579.0	1583.8	1586.2	1588.6
10°	1567.0	1567.0	1574.2	1576.6	1581.4
12.5°	1547.8	1550.2	1557.4	1564.6	1569.4
15°	1523.8	1526.2	1538.2	1547.8	1552.6
17.5°	1495.0	1499.8	1514.2	1528.6	1533.4
20°	1463.8	1471.0	1487.8	1504.6	1514.2
22.5°	1430.2	1435.0	1454.2	1475.8	1485.4
25°	1389.4	1399.0	1420.6	1444.6	1456.6
27.5°	1348.6	1358.2	1382.2	1411.0	1425.4
30°	1303.0	1312.6	1341.4	1372.6	1389.4
32.5°	1255.0	1267.0	1300.6	1331.8	1348.6
35°	1207.0	1221.4	1252.6	1286.2	1307.8
37.5°	1159.0	1171.0	1204.6	1240.6	1262.2
40°	1108.6	1120.6	1156.6	1192.6	1216.6
42.5°	1053.5	1067.9	1103.8	1142.2	1161.4
45°	1000.7	1012.7	1048.7	1091.8	1111.0
47.5°	943.1	959.9	993.5	1034.3	1055.9
50°	887.9	902.3	938.3	976.7	993.5
52.5°	830.3	844.7	878.3	916.7	935.9
55°	772.7	789.5	820.7	856.7	875.9
57.5°	712.7	729.5	760.7	791.9	813.5
60°	655.1	671.9	700.7	731.9	751.1
62.5°	590.3	604.7	635.9	669.5	683.9
65°	532.7	544.7	571.1	599.9	614.3
67.5°	472.7	487.1	511.1	537.5	554.3
70°	412.7	429.5	448.7	472.7	491.9
72.5°	355.2	369.5	386.3	410.3	427.1
75°	297.6	312.0	326.4	348.0	364.7
77.5°	247.2	254.4	268.8	288.0	304.8
80°	192.0	201.6	213.6	232.8	244.8
82.5°	144.0	153.6	163.2	177.6	189.6
85°	103.2	110.4	120.0	132.0	139.2
87.5°	69.6	76.8	84.0	93.6	100.8
90°	48.0	55.2	60.0	67.2	72.0
92.5°	40.8	45.6	50.4	55.2	60.0
95°	36.0	40.8	45.6	50.4	55.2
97.5°	33.6	36.0	40.8	45.6	48.0
100°	31.2	33.6	36.0	40.8	43.2
102.5°	28.8	28.8	33.6	36.0	38.4
105°	26.4	26.4	28.8	31.2	33.6
107.5°	24.0	24.0	26.4	26.4	31.2
110°	21.6	19.2	21.6	21.6	26.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.2	16.8	19.2	19.2	21.6
115°	16.8	14.4	14.4	16.8	19.2
117.5°	14.4	12.0	12.0	12.0	16.8
120°	14.4	12.0	9.6	9.6	14.4
122.5°	12.0	9.6	7.2	9.6	12.0
125°	9.6	7.2	4.8	7.2	9.6
127.5°	7.2	7.2	2.4	4.8	7.2
130°	7.2	4.8	2.4	4.8	4.8
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)