

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: P384690

Luminaire Tested: **24ID-50-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384690
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: 24ID-50-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

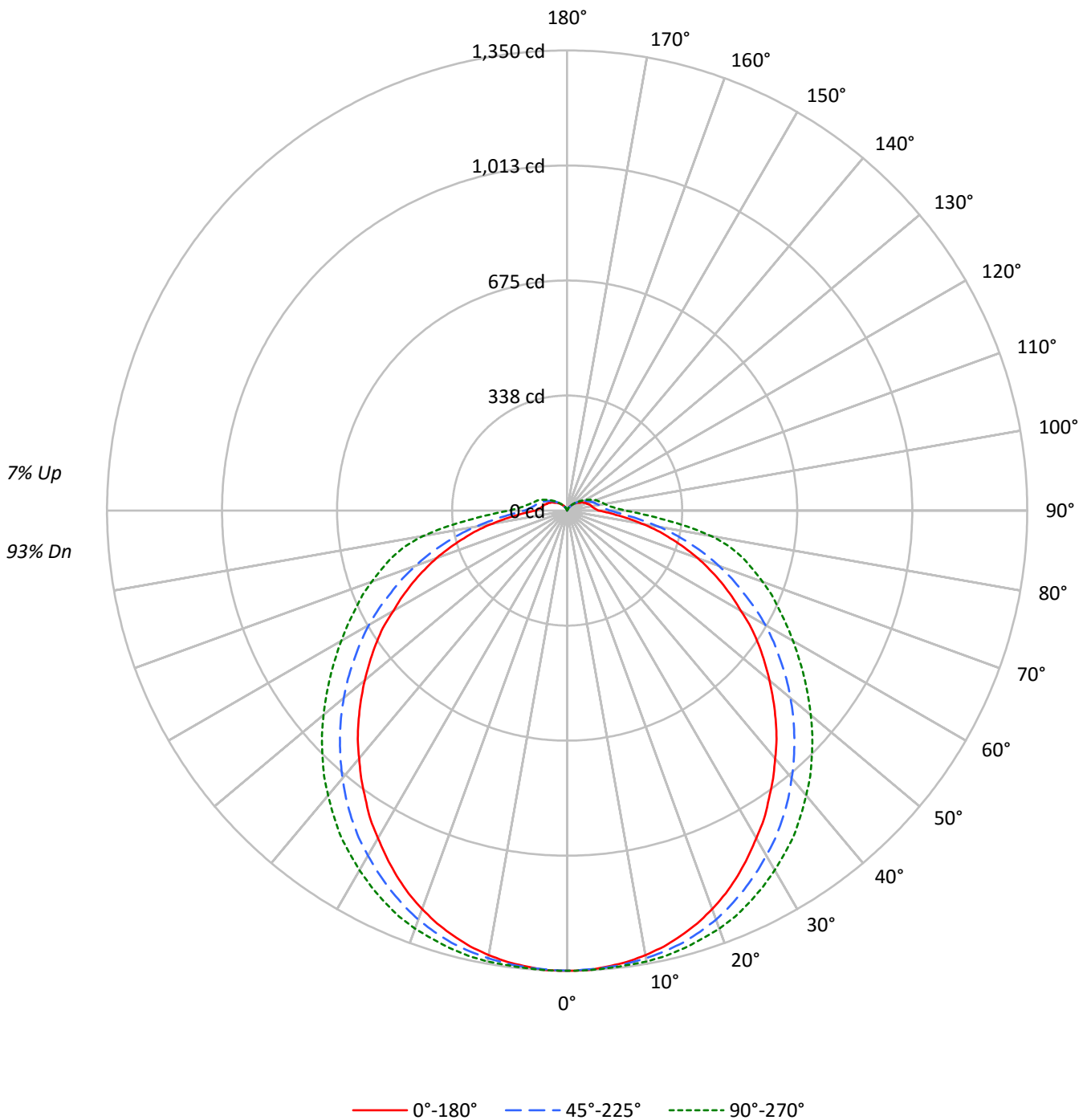
Lumens per Lamp: N/A
Luminaire Lumens: 4724.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 44.1
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	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°	1816	1816	1816
5°	1804	1796	1801
10°	1789	1780	1795
15°	1769	1765	1791
20°	1742	1744	1788
25°	1706	1716	1778
30°	1664	1686	1765
35°	1624	1657	1754
40°	1585	1620	1734
45°	1549	1583	1718
50°	1510	1546	1700
55°	1476	1506	1688
60°	1430	1470	1694
65°	1402	1413	1721
70°	1368	1366	1787
75°	1321	1295	1888
80°	1280	1209	1944
85°	1294	1113	1752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	2.7
10°-20°	369.9	7.8
20°-30°	565.2	12.0
30°-40°	687.9	14.6
40°-50°	727.1	15.4
50°-60°	686.4	14.5
60°-70°	577.5	12.2
70°-80°	416.3	8.8
80°-90°	219.6	4.6
90°-100°	117.5	2.5
100°-110°	89.2	1.9
110°-120°	64.7	1.4
120°-130°	40.6	0.9
130°-140°	22.0	0.5
140°-150°	9.6	0.2
150°-160°	2.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1063.1	22.5
0°-40°	1751.0	37.1
0°-60°	3164.5	67.0
0°-90°	4377.8	92.7
90°-120°	271.5	5.7
90°-150°	343.7	7.3
90°-180°	346.0	7.3
0°-180°	4724.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1343	1343	1345	1345	1348	128
15°	1291	1296	1312	1322	1329	364
25°	1183	1197	1228	1256	1268	545
35°	1032	1056	1103	1145	1162	646
45°	865	891	942	994	1016	667
55°	686	716	763	820	848	613
65°	500	528	570	641	686	494
75°	313	339	372	445	532	333
85°	144	163	181	226	276	135
90°	92	108	125	148	170	53
95°	80	92	106	120	130	64
105°	68	75	85	94	99	71
115°	54	59	66	71	75	54
125°	40	40	47	47	50	36
135°	28	26	28	28	31	21
145°	16	14	14	14	16	10
155°	7	7	2	5	7	3
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°	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1350.0	1347.7	1347.7	1347.7	1350.0
5°	1342.9	1342.9	1345.3	1345.3	1347.7
7.5°	1335.9	1335.9	1340.6	1342.9	1345.3
10°	1324.1	1326.4	1333.5	1338.2	1342.9
12.5°	1310.0	1312.3	1324.1	1333.5	1338.2
15°	1291.1	1295.8	1312.3	1321.7	1328.8
17.5°	1269.9	1277.0	1295.8	1310.0	1317.0
20°	1244.0	1253.4	1277.0	1295.8	1305.2
22.5°	1215.7	1225.1	1253.4	1277.0	1288.8
25°	1182.7	1196.9	1227.5	1255.8	1267.5
27.5°	1147.4	1163.9	1199.2	1232.2	1244.0
30°	1109.7	1128.5	1168.6	1203.9	1218.1
32.5°	1074.4	1093.2	1138.0	1175.7	1189.8
35°	1031.9	1055.5	1102.6	1145.0	1161.5
37.5°	991.9	1015.5	1064.9	1109.7	1126.2
40°	949.5	973.0	1024.9	1074.4	1090.8
42.5°	909.4	933.0	984.8	1036.7	1055.5
45°	864.7	890.6	942.4	994.2	1015.5
47.5°	819.9	845.8	900.0	954.2	975.4
50°	775.1	803.4	855.2	909.4	933.0
52.5°	730.4	758.6	810.5	867.0	890.6
55°	685.6	716.2	763.4	819.9	848.2
57.5°	640.8	671.5	718.6	777.5	805.8
60°	589.0	624.3	671.5	732.7	765.7
62.5°	544.2	574.9	622.0	685.6	725.7
65°	499.5	527.8	570.2	640.8	685.6
67.5°	452.4	483.0	523.0	589.0	650.3
70°	407.6	433.5	473.6	541.9	610.2
72.5°	360.5	386.4	424.1	494.8	570.2
75°	313.4	339.3	372.3	445.3	532.5
77.5°	270.9	292.1	322.8	393.5	487.7
80°	223.8	245.0	273.3	336.9	428.8
82.5°	181.4	200.3	223.8	280.4	353.4
85°	143.7	162.6	181.4	226.2	275.7
87.5°	115.4	129.6	148.4	181.4	214.4
90°	91.9	108.4	124.9	148.4	169.6
92.5°	84.8	99.0	113.1	131.9	146.1
95°	80.1	91.9	106.0	120.2	129.6
97.5°	75.4	87.2	99.0	113.1	120.2
100°	73.0	82.5	94.2	106.0	110.7
102.5°	70.7	77.7	89.5	99.0	106.0
105°	68.3	75.4	84.8	94.2	99.0
107.5°	63.6	70.7	80.1	89.5	94.2
110°	61.3	66.0	75.4	82.5	89.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.9	63.6	70.7	77.7	82.5
115°	54.2	58.9	66.0	70.7	75.4
117.5°	51.8	54.2	61.3	63.6	68.3
120°	47.1	49.5	56.5	58.9	61.3
122.5°	42.4	44.8	51.8	51.8	56.5
125°	40.1	40.1	47.1	47.1	49.5
127.5°	37.7	37.7	42.4	42.4	44.8
130°	33.0	33.0	37.7	37.7	37.7
132.5°	30.6	28.3	33.0	33.0	35.3
135°	28.3	25.9	28.3	28.3	30.6
137.5°	23.6	23.6	25.9	23.6	25.9
140°	21.2	18.8	21.2	21.2	23.6
142.5°	18.8	16.5	18.8	16.5	18.8
145°	16.5	14.1	14.1	14.1	16.5
147.5°	14.1	11.8	11.8	11.8	14.1
150°	11.8	9.4	9.4	9.4	11.8
152.5°	9.4	7.1	4.7	7.1	9.4
155°	7.1	7.1	2.4	4.7	7.1
157.5°	4.7	4.7	0.0	2.4	4.7
160°	2.4	2.4	0.0	2.4	2.4
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)