

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: P384250

Luminaire Tested: **14ID-55-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384250
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-L830-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

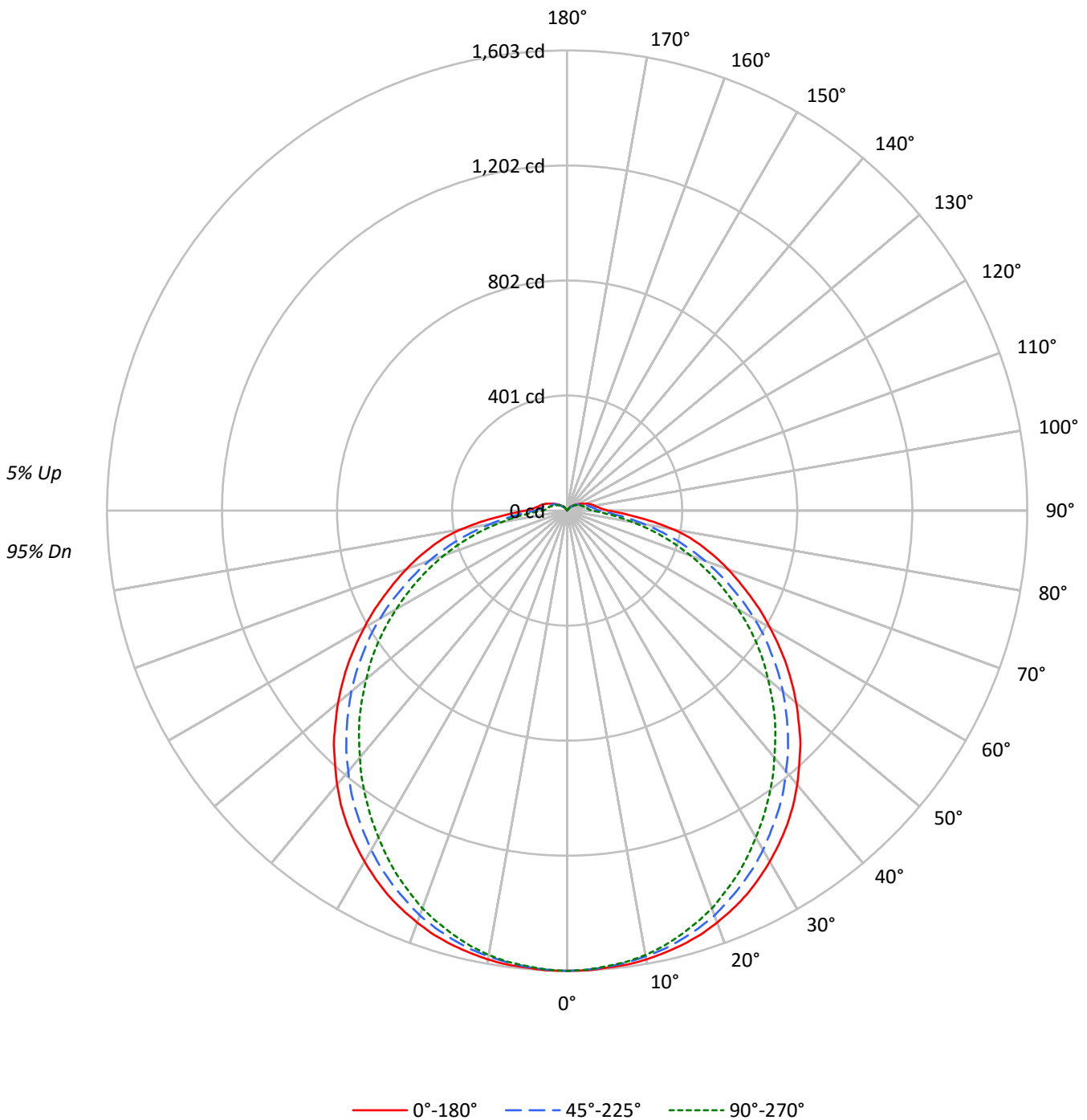
Lumens per Lamp: N/A
Luminaire Lumens: 5200.6 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48.2
Input Voltage (V): NR
Input Current (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	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°	4315	4315	4315
5°	4301	4255	4241
10°	4307	4201	4173
15°	4309	4143	4080
20°	4308	4080	3982
25°	4303	3995	3861
30°	4284	3908	3727
35°	4264	3814	3597
40°	4231	3708	3462
45°	4199	3604	3339
50°	4155	3495	3190
55°	4125	3367	3053
60°	4097	3230	2872
65°	4111	3047	2684
70°	4205	2866	2464
75°	4415	2623	2187
80°	4704	2304	1839
85°	4940	1993	1506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	2.9
10°-20°	436.4	8.4
20°-30°	662.8	12.7
30°-40°	800.6	15.4
40°-50°	837.9	16.1
50°-60°	777.5	15.0
60°-70°	629.8	12.1
70°-80°	425.0	8.2
80°-90°	205.3	3.9
90°-100°	103.3	2.0
100°-110°	75.1	1.4
110°-120°	50.2	1.0
120°-130°	29.1	0.6
130°-140°	14.7	0.3
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1250.9	24.1
0°-40°	2051.6	39.4
0°-60°	3667.0	70.5
0°-90°	4927.2	94.7
90°-120°	228.6	4.4
90°-150°	273.4	5.3
90°-180°	273.0	5.2
0°-180°	5200.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1598	1596	1596	1593	1593	152
15°	1564	1556	1546	1535	1530	442
25°	1478	1464	1438	1412	1401	681
35°	1336	1317	1281	1241	1223	836
45°	1149	1128	1086	1042	1024	885
55°	932	911	869	827	806	833
65°	703	677	630	596	572	698
75°	491	441	391	362	341	517
85°	236	205	173	158	142	223
90°	142	129	110	100	84	81
95°	113	105	94	84	74	89
105°	84	79	71	63	58	90
115°	58	52	52	45	45	57
125°	37	32	34	29	32	32
135°	21	18	18	18	21	16
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°	1603.4	1603.4	1603.4	1603.4	1603.4
2.5°	1603.4	1600.8	1600.8	1600.8	1600.8
5°	1598.2	1595.6	1595.6	1592.9	1592.9
7.5°	1595.6	1590.3	1587.7	1585.1	1585.1
10°	1587.7	1582.4	1577.2	1572.0	1572.0
12.5°	1577.2	1572.0	1564.1	1553.6	1553.6
15°	1564.1	1556.2	1545.7	1535.2	1530.0
17.5°	1548.3	1540.5	1524.7	1509.0	1503.7
20°	1527.3	1516.8	1501.1	1480.1	1474.9
22.5°	1503.7	1493.2	1469.6	1448.6	1438.1
25°	1477.5	1464.4	1438.1	1411.9	1401.4
27.5°	1446.0	1432.9	1404.0	1372.5	1359.4
30°	1411.9	1396.1	1364.6	1330.5	1314.8
32.5°	1375.1	1356.8	1322.6	1285.9	1270.2
35°	1335.8	1317.4	1280.7	1241.3	1222.9
37.5°	1293.8	1275.4	1236.0	1194.1	1175.7
40°	1246.5	1228.2	1186.2	1144.2	1123.2
42.5°	1196.7	1180.9	1138.9	1094.3	1073.3
45°	1149.4	1128.4	1086.5	1041.8	1023.5
47.5°	1094.3	1078.6	1034.0	989.4	968.4
50°	1041.8	1023.5	981.5	936.9	913.3
52.5°	986.7	971.0	926.4	881.8	860.8
55°	931.6	910.6	868.6	826.7	805.7
57.5°	873.9	855.5	813.5	774.2	747.9
60°	816.2	797.8	753.2	716.4	687.6
62.5°	761.0	740.1	692.8	653.4	629.8
65°	703.3	677.1	629.8	595.7	572.1
67.5°	648.2	616.7	569.5	538.0	514.4
70°	595.7	559.0	511.7	480.2	456.6
72.5°	543.2	498.6	448.8	419.9	398.9
75°	490.7	440.9	391.0	362.2	341.2
77.5°	438.3	380.5	330.7	307.0	286.0
80°	375.3	320.2	272.9	251.9	230.9
82.5°	304.4	259.8	220.4	199.4	183.7
85°	236.2	204.7	173.2	157.5	141.7
87.5°	183.7	160.1	136.5	123.3	110.2
90°	141.7	128.6	110.2	99.7	84.0
92.5°	123.3	112.8	99.7	89.2	76.1
95°	112.8	105.0	94.5	84.0	73.5
97.5°	102.3	97.1	86.6	78.7	68.2
100°	97.1	89.2	81.4	73.5	65.6
102.5°	91.9	84.0	76.1	68.2	63.0
105°	84.0	78.7	70.9	63.0	57.7
107.5°	78.7	70.9	65.6	57.7	55.1
110°	70.9	65.6	60.4	55.1	52.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.0	60.4	55.1	49.9	47.2
115°	57.7	52.5	52.5	44.6	44.6
117.5°	52.5	47.2	47.2	42.0	42.0
120°	44.6	42.0	42.0	36.7	36.7
122.5°	39.4	36.7	36.7	34.1	34.1
125°	36.7	31.5	34.1	28.9	31.5
127.5°	31.5	28.9	28.9	26.2	28.9
130°	26.2	23.6	23.6	23.6	26.2
132.5°	23.6	21.0	21.0	21.0	23.6
135°	21.0	18.4	18.4	18.4	21.0
137.5°	18.4	15.7	13.1	15.7	18.4
140°	15.7	13.1	10.5	13.1	15.7
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)