

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: P384082

Luminaire Tested: **14ID-55-L830-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384082  
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-55-L830-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

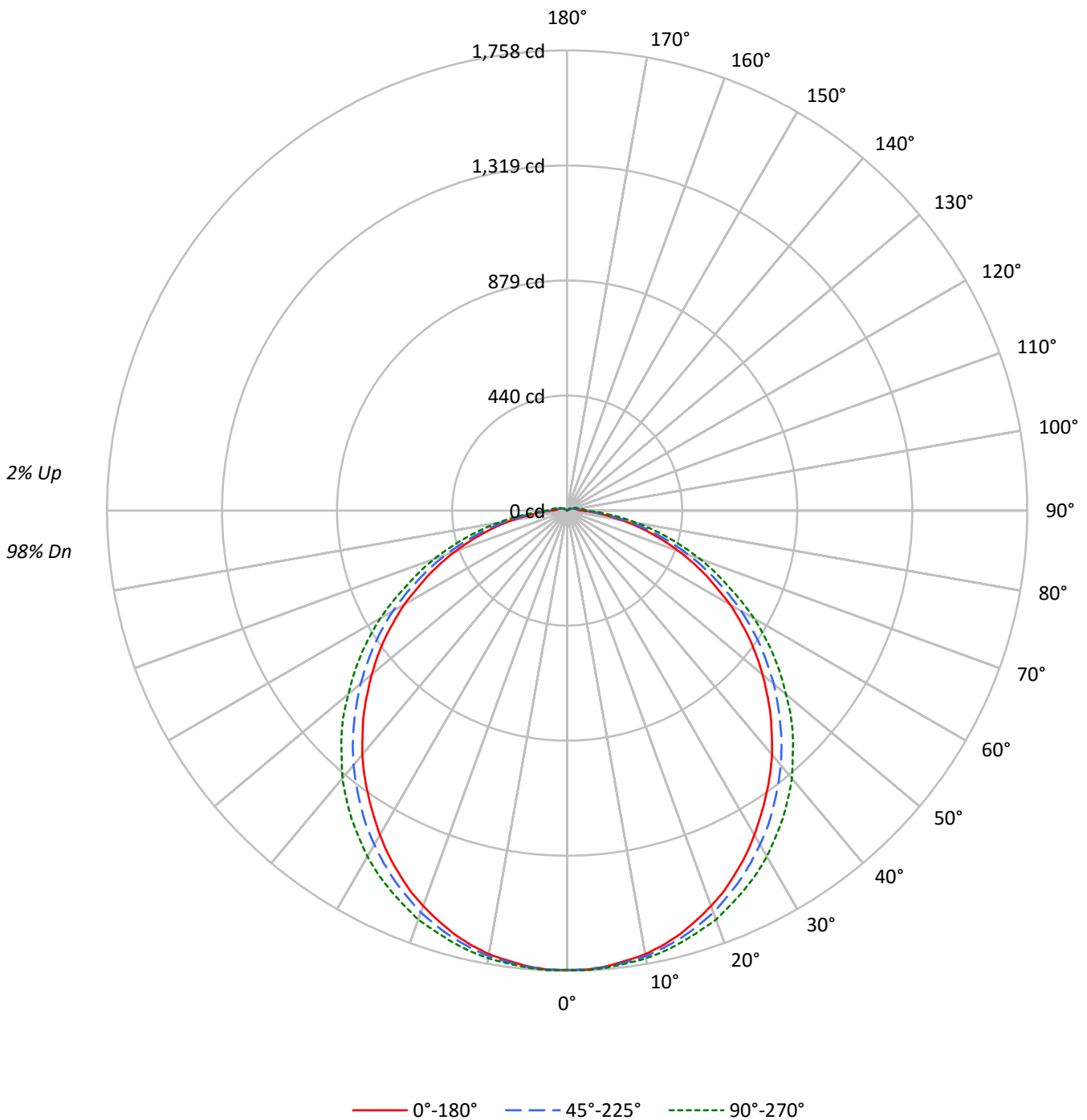
Lumens per Lamp: N/A  
Luminaire Lumens: 5197.8 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 48.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	4723	4723	4723
5°	4711	4696	4699
10°	4685	4663	4677
15°	4636	4615	4646
20°	4568	4557	4622
25°	4487	4478	4572
30°	4393	4391	4524
35°	4292	4297	4458
40°	4203	4202	4387
45°	4097	4082	4286
50°	3983	3965	4155
55°	3866	3826	4033
60°	3737	3673	3879
65°	3566	3449	3644
70°	3373	3225	3459
75°	3153	2923	3177
80°	2922	2564	2829
85°	2826	2210	2417



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.2	3.2
10°-20°	476.5	9.2
20°-30°	719.4	13.8
30°-40°	861.9	16.6
40°-50°	891.1	17.1
50°-60°	807.0	15.5
60°-70°	624.4	12.0
70°-80°	383.6	7.4
80°-90°	152.4	2.9
90°-100°	55.6	1.1
100°-110°	34.2	0.7
110°-120°	17.6	0.3
120°-130°	7.5	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°	1362.0	26.2
0°-40°	2223.9	42.8
0°-60°	3922.0	75.5
0°-90°	5082.5	97.8
90°-120°	107.3	2.1
90°-150°	115.3	2.2
90°-180°	115.0	2.2
0°-180°	5197.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1747	1747	1750	1750	1752	166
15°	1673	1676	1689	1700	1705	472
25°	1526	1536	1560	1586	1600	703
35°	1326	1341	1376	1412	1436	830
45°	1099	1112	1152	1199	1220	847
55°	848	867	901	941	962	758
65°	585	598	627	659	675	579
75°	327	343	358	382	400	348
85°	113	121	132	145	153	113
90°	53	61	66	74	79	31
95°	40	45	50	55	61	32
105°	29	29	32	34	37	31
115°	18	16	16	18	21	19
125°	10	8	5	8	10	10
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°	1755.0	1755.0	1755.0	1755.0	1755.0
2.5°	1755.0	1752.4	1755.0	1755.0	1757.7
5°	1747.1	1747.1	1749.7	1749.7	1752.4
7.5°	1733.9	1733.9	1739.2	1741.8	1744.5
10°	1720.8	1720.8	1728.7	1731.3	1736.6
12.5°	1699.7	1702.3	1710.2	1718.1	1723.4
15°	1673.3	1676.0	1689.1	1699.7	1704.9
17.5°	1641.7	1647.0	1662.8	1678.6	1683.9
20°	1607.4	1615.4	1633.8	1652.2	1662.8
22.5°	1570.6	1575.8	1596.9	1620.6	1631.2
25°	1525.8	1536.3	1560.0	1586.4	1599.5
27.5°	1481.0	1491.5	1517.9	1549.5	1565.3
30°	1430.9	1441.4	1473.1	1507.3	1525.8
32.5°	1378.2	1391.4	1428.3	1462.5	1481.0
35°	1325.5	1341.3	1375.6	1412.4	1436.2
37.5°	1272.8	1286.0	1322.9	1362.4	1386.1
40°	1217.4	1230.6	1270.1	1309.7	1336.0
42.5°	1156.8	1172.6	1212.2	1254.3	1275.4
45°	1098.9	1112.0	1151.6	1199.0	1220.1
47.5°	1035.6	1054.1	1091.0	1135.8	1159.5
50°	975.0	990.8	1030.3	1072.5	1091.0
52.5°	911.8	927.6	964.5	1006.6	1027.7
55°	848.5	867.0	901.2	940.8	961.8
57.5°	782.6	801.1	835.3	869.6	893.3
60°	719.4	737.8	769.5	803.7	824.8
62.5°	648.2	664.1	698.3	735.2	751.0
65°	585.0	598.2	627.2	658.8	674.6
67.5°	519.1	534.9	561.3	590.3	608.7
70°	453.2	471.7	492.8	519.1	540.2
72.5°	390.0	405.8	424.3	450.6	469.1
75°	326.8	342.6	358.4	382.1	400.5
77.5°	271.4	279.3	295.1	316.2	334.7
80°	210.8	221.4	234.5	255.6	268.8
82.5°	158.1	168.7	179.2	195.0	208.2
85°	113.3	121.2	131.8	144.9	152.8
87.5°	76.4	84.3	92.2	102.8	110.7
90°	52.7	60.6	65.9	73.8	79.1
92.5°	44.8	50.1	55.3	60.6	65.9
95°	39.5	44.8	50.1	55.3	60.6
97.5°	36.9	39.5	44.8	50.1	52.7
100°	34.3	36.9	39.5	44.8	47.4
102.5°	31.6	31.6	36.9	39.5	42.2
105°	29.0	29.0	31.6	34.3	36.9
107.5°	26.4	26.4	29.0	29.0	34.3
110°	23.7	21.1	23.7	23.7	29.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.1	18.4	21.1	21.1	23.7
115°	18.4	15.8	15.8	18.4	21.1
117.5°	15.8	13.2	13.2	13.2	18.4
120°	15.8	13.2	10.5	10.5	15.8
122.5°	13.2	10.5	7.9	10.5	13.2
125°	10.5	7.9	5.3	7.9	10.5
127.5°	7.9	7.9	2.6	5.3	7.9
130°	7.9	5.3	2.6	5.3	5.3
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)