

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: P384687

Luminaire Tested: **24ID-45-L835-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384687  
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-45-L835-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

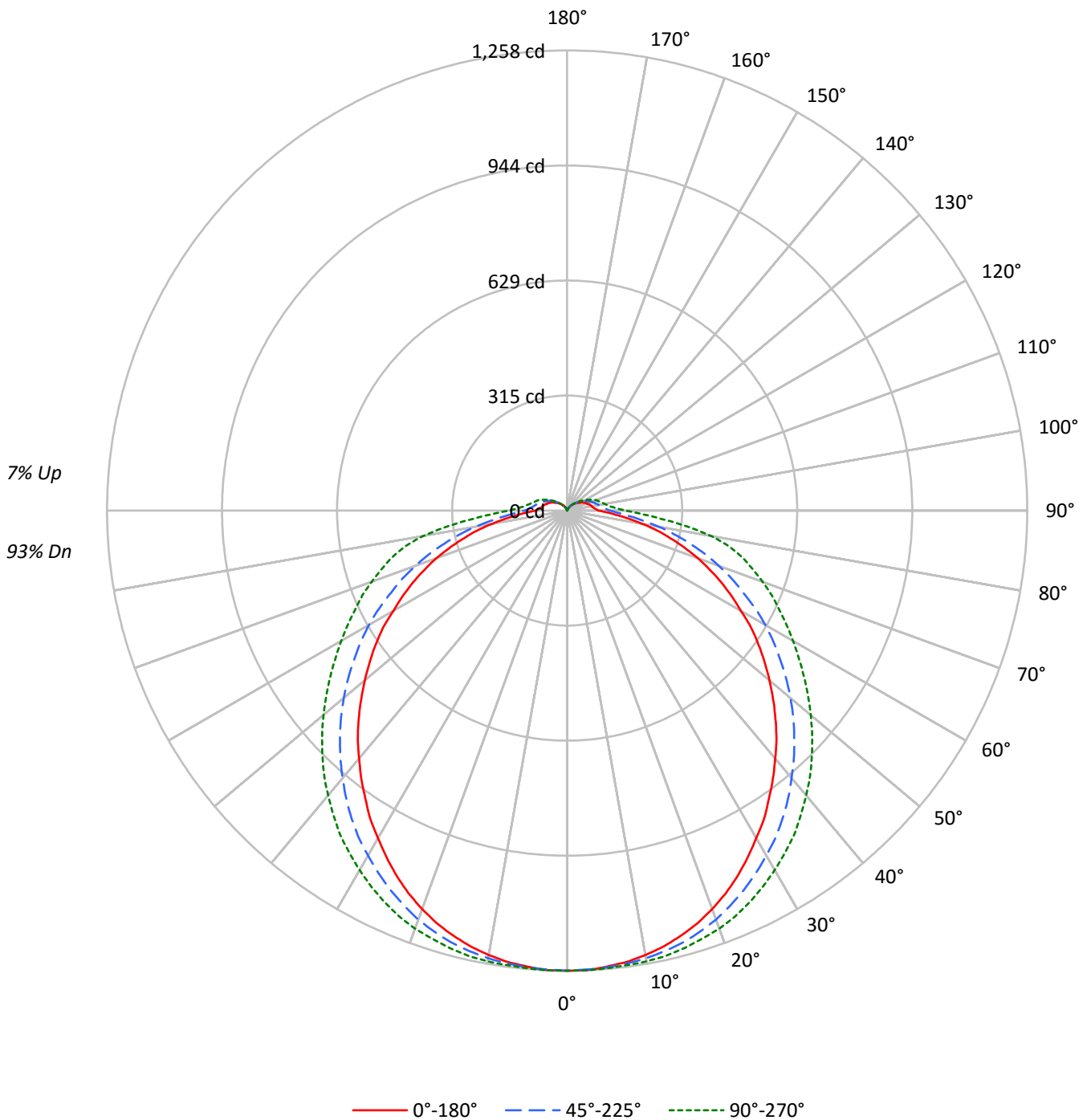
Lumens per Lamp: N/A  
Luminaire Lumens: 4401.7 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 40  
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	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°	1692	1692	1692
5°	1681	1674	1678
10°	1667	1659	1673
15°	1648	1645	1669
20°	1623	1625	1665
25°	1590	1599	1657
30°	1550	1571	1645
35°	1513	1544	1634
40°	1476	1509	1616
45°	1443	1475	1600
50°	1407	1440	1584
55°	1376	1403	1573
60°	1333	1369	1578
65°	1307	1317	1604
70°	1275	1272	1665
75°	1231	1206	1759
80°	1193	1126	1811
85°	1206	1037	1632



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	2.7
10°-20°	344.7	7.8
20°-30°	526.6	12.0
30°-40°	641.0	14.6
40°-50°	677.5	15.4
50°-60°	639.5	14.5
60°-70°	538.0	12.2
70°-80°	387.9	8.8
80°-90°	204.6	4.6
90°-100°	109.5	2.5
100°-110°	83.2	1.9
110°-120°	60.3	1.4
120°-130°	37.9	0.9
130°-140°	20.5	0.5
140°-150°	9.0	0.2
150°-160°	2.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	990.5	22.5
0°-40°	1631.5	37.1
0°-60°	2948.5	67.0
0°-90°	4078.9	92.7
90°-120°	253.0	5.7
90°-150°	320.3	7.3
90°-180°	323.0	7.3
0°-180°	4401.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1251	1251	1254	1254	1256	119
15°	1203	1207	1223	1232	1238	339
25°	1102	1115	1144	1170	1181	507
35°	962	983	1027	1067	1082	602
45°	806	830	878	926	946	622
55°	639	667	711	764	790	571
65°	465	492	531	597	639	460
75°	292	316	347	415	496	310
85°	134	152	169	211	257	125
90°	86	101	116	138	158	49
95°	75	86	99	112	121	59
105°	64	70	79	88	92	67
115°	50	55	62	66	70	51
125°	37	37	44	44	46	34
135°	26	24	26	26	28	20
145°	15	13	13	13	15	10
155°	7	7	2	4	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°	1257.8	1257.8	1257.8	1257.8	1257.8
2.5°	1257.8	1255.7	1255.7	1255.7	1257.8
5°	1251.3	1251.3	1253.5	1253.5	1255.7
7.5°	1244.7	1244.7	1249.1	1251.3	1253.5
10°	1233.7	1235.9	1242.5	1246.9	1251.3
12.5°	1220.5	1222.7	1233.7	1242.5	1246.9
15°	1203.0	1207.4	1222.7	1231.5	1238.1
17.5°	1183.2	1189.8	1207.4	1220.5	1227.1
20°	1159.1	1167.8	1189.8	1207.4	1216.1
22.5°	1132.7	1141.5	1167.8	1189.8	1200.8
25°	1102.0	1115.2	1143.7	1170.0	1181.0
27.5°	1069.1	1084.4	1117.4	1148.1	1159.1
30°	1033.9	1051.5	1088.8	1121.7	1134.9
32.5°	1001.0	1018.6	1060.3	1095.4	1108.6
35°	961.5	983.4	1027.4	1066.9	1082.2
37.5°	924.2	946.1	992.2	1033.9	1049.3
40°	884.7	906.6	954.9	1001.0	1016.4
42.5°	847.3	869.3	917.6	965.9	983.4
45°	805.6	829.8	878.1	926.4	946.1
47.5°	763.9	788.1	838.6	889.1	908.8
50°	722.2	748.6	796.9	847.3	869.3
52.5°	680.5	706.9	755.1	807.8	829.8
55°	638.8	667.3	711.2	763.9	790.3
57.5°	597.1	625.6	669.5	724.4	750.8
60°	548.8	581.7	625.6	682.7	713.4
62.5°	507.1	535.6	579.5	638.8	676.1
65°	465.4	491.7	531.2	597.1	638.8
67.5°	421.5	450.0	487.3	548.8	605.9
70°	379.8	403.9	441.2	504.9	568.6
72.5°	335.9	360.0	395.1	461.0	531.2
75°	292.0	316.1	346.8	414.9	496.1
77.5°	252.4	272.2	300.7	366.6	454.4
80°	208.5	228.3	254.6	313.9	399.5
82.5°	169.0	186.6	208.5	261.2	329.3
85°	133.9	151.5	169.0	210.7	256.8
87.5°	107.6	120.7	138.3	169.0	199.8
90°	85.6	101.0	116.3	138.3	158.1
92.5°	79.0	92.2	105.4	122.9	136.1
95°	74.6	85.6	98.8	112.0	120.7
97.5°	70.2	81.2	92.2	105.4	112.0
100°	68.1	76.8	87.8	98.8	103.2
102.5°	65.9	72.4	83.4	92.2	98.8
105°	63.7	70.2	79.0	87.8	92.2
107.5°	59.3	65.9	74.6	83.4	87.8
110°	57.1	61.5	70.2	76.8	83.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	54.9	59.3	65.9	72.4	76.8
115°	50.5	54.9	61.5	65.9	70.2
117.5°	48.3	50.5	57.1	59.3	63.7
120°	43.9	46.1	52.7	54.9	57.1
122.5°	39.5	41.7	48.3	48.3	52.7
125°	37.3	37.3	43.9	43.9	46.1
127.5°	35.1	35.1	39.5	39.5	41.7
130°	30.7	30.7	35.1	35.1	35.1
132.5°	28.5	26.3	30.7	30.7	32.9
135°	26.3	24.1	26.3	26.3	28.5
137.5°	22.0	22.0	24.1	22.0	24.1
140°	19.8	17.6	19.8	19.8	22.0
142.5°	17.6	15.4	17.6	15.4	17.6
145°	15.4	13.2	13.2	13.2	15.4
147.5°	13.2	11.0	11.0	11.0	13.2
150°	11.0	8.8	8.8	8.8	11.0
152.5°	8.8	6.6	4.4	6.6	8.8
155°	6.6	6.6	2.2	4.4	6.6
157.5°	4.4	4.4	0.0	2.2	4.4
160°	2.2	2.2	0.0	2.2	2.2
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)