

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: P384689

Luminaire Tested: **24ID-45-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384689  
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-L850-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

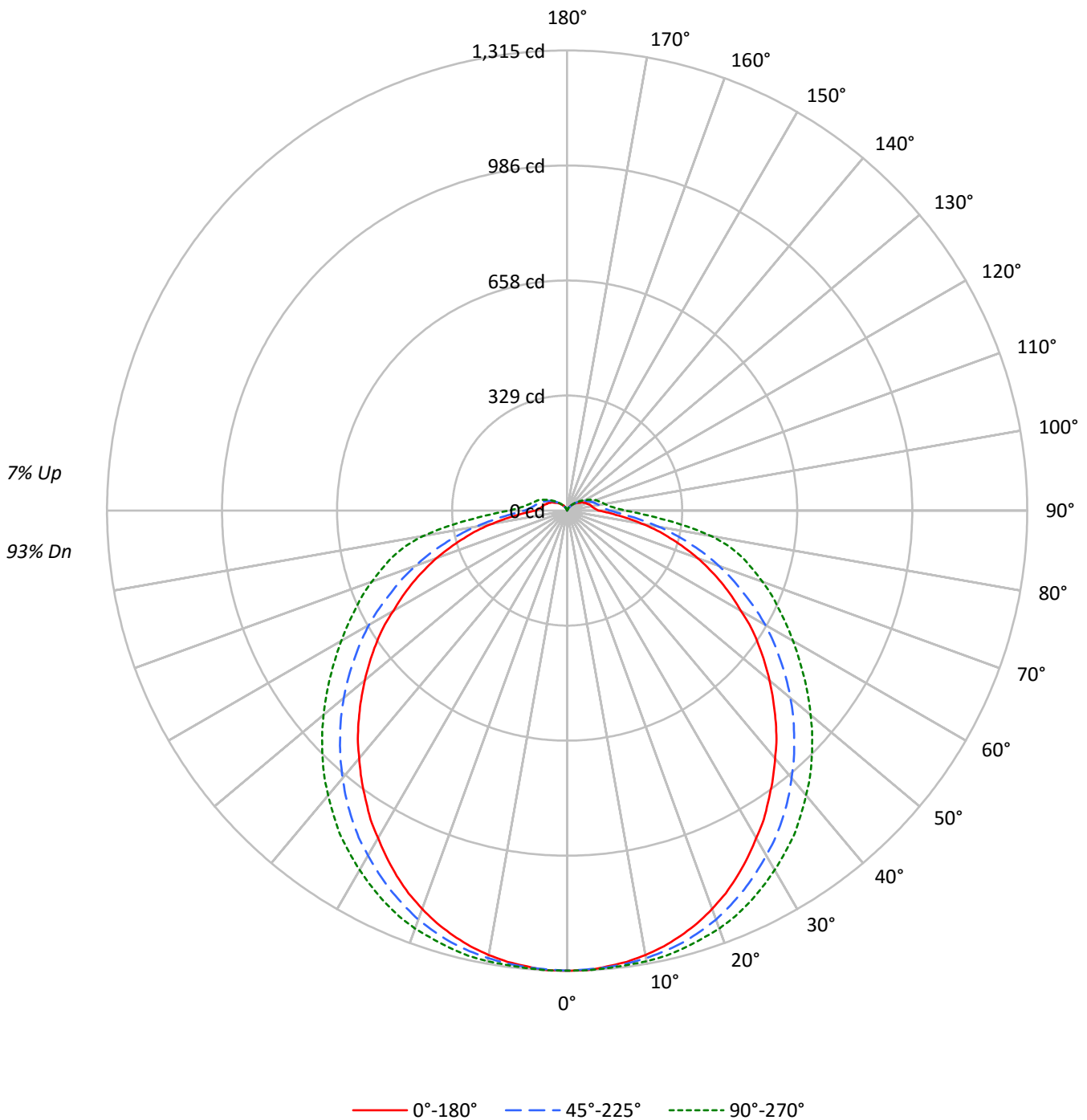
Lumens per Lamp: N/A  
Luminaire Lumens: 4600.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

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°	1769	1769	1769
5°	1757	1749	1753
10°	1743	1734	1748
15°	1723	1719	1744
20°	1696	1699	1741
25°	1662	1671	1732
30°	1621	1642	1719
35°	1581	1614	1708
40°	1543	1578	1689
45°	1508	1542	1673
50°	1471	1506	1655
55°	1438	1466	1644
60°	1393	1431	1650
65°	1366	1376	1676
70°	1333	1330	1740
75°	1287	1261	1838
80°	1247	1177	1893
85°	1261	1084	1706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.7	2.7
10°-20°	360.2	7.8
20°-30°	550.4	12.0
30°-40°	670.0	14.6
40°-50°	708.1	15.4
50°-60°	668.4	14.5
60°-70°	562.3	12.2
70°-80°	405.4	8.8
80°-90°	213.8	4.6
90°-100°	114.4	2.5
100°-110°	86.9	1.9
110°-120°	63.0	1.4
120°-130°	39.6	0.9
130°-140°	21.4	0.5
140°-150°	9.4	0.2
150°-160°	2.5	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1035.3	22.5
0°-40°	1705.2	37.1
0°-60°	3081.7	67.0
0°-90°	4263.3	92.7
90°-120°	264.4	5.7
90°-150°	334.7	7.3
90°-180°	337.0	7.3
0°-180°	4600.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1308	1308	1310	1310	1312	124
15°	1257	1262	1278	1287	1294	355
25°	1152	1166	1195	1223	1234	530
35°	1005	1028	1074	1115	1131	629
45°	842	867	918	968	989	650
55°	668	698	743	798	826	597
65°	486	514	555	624	668	481
75°	305	330	362	434	518	324
85°	140	158	177	220	268	131
90°	90	106	122	144	165	51
95°	78	90	103	117	126	62
105°	66	73	83	92	96	70
115°	53	57	64	69	73	53
125°	39	39	46	46	48	35
135°	28	25	28	28	30	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°	1314.7	1314.7	1314.7	1314.7	1314.7
2.5°	1314.7	1312.4	1312.4	1312.4	1314.7
5°	1307.8	1307.8	1310.1	1310.1	1312.4
7.5°	1300.9	1300.9	1305.5	1307.8	1310.1
10°	1289.5	1291.7	1298.6	1303.2	1307.8
12.5°	1275.7	1278.0	1289.5	1298.6	1303.2
15°	1257.3	1261.9	1278.0	1287.2	1294.0
17.5°	1236.7	1243.6	1261.9	1275.7	1282.6
20°	1211.4	1220.6	1243.6	1261.9	1271.1
22.5°	1183.9	1193.1	1220.6	1243.6	1255.0
25°	1151.8	1165.6	1195.4	1222.9	1234.4
27.5°	1117.4	1133.4	1167.8	1200.0	1211.4
30°	1080.7	1099.0	1138.0	1172.4	1186.2
32.5°	1046.2	1064.6	1108.2	1144.9	1158.7
35°	1004.9	1027.9	1073.8	1115.1	1131.1
37.5°	965.9	988.9	1037.1	1080.7	1096.7
40°	924.6	947.6	998.1	1046.2	1062.3
42.5°	885.6	908.6	959.1	1009.5	1027.9
45°	842.0	867.3	917.8	968.2	988.9
47.5°	798.4	823.7	876.5	929.2	949.9
50°	754.9	782.4	832.9	885.6	908.6
52.5°	711.3	738.8	789.3	844.3	867.3
55°	667.7	697.5	743.4	798.4	826.0
57.5°	624.1	653.9	699.8	757.2	784.7
60°	573.6	608.0	653.9	713.6	745.7
62.5°	530.0	559.8	605.7	667.7	706.7
65°	486.4	513.9	555.2	624.1	667.7
67.5°	440.5	470.4	509.4	573.6	633.3
70°	396.9	422.2	461.2	527.7	594.2
72.5°	351.0	376.3	413.0	481.8	555.2
75°	305.2	330.4	362.5	433.6	518.5
77.5°	263.9	284.5	314.3	383.2	474.9
80°	218.0	238.6	266.1	328.1	417.6
82.5°	176.7	195.0	218.0	273.0	344.2
85°	140.0	158.3	176.7	220.3	268.4
87.5°	112.4	126.2	144.5	176.7	208.8
90°	89.5	105.5	121.6	144.5	165.2
92.5°	82.6	96.4	110.1	128.5	142.3
95°	78.0	89.5	103.2	117.0	126.2
97.5°	73.4	84.9	96.4	110.1	117.0
100°	71.1	80.3	91.8	103.2	107.8
102.5°	68.8	75.7	87.2	96.4	103.2
105°	66.5	73.4	82.6	91.8	96.4
107.5°	61.9	68.8	78.0	87.2	91.8
110°	59.7	64.2	73.4	80.3	87.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	57.4	61.9	68.8	75.7	80.3
115°	52.8	57.4	64.2	68.8	73.4
117.5°	50.5	52.8	59.7	61.9	66.5
120°	45.9	48.2	55.1	57.4	59.7
122.5°	41.3	43.6	50.5	50.5	55.1
125°	39.0	39.0	45.9	45.9	48.2
127.5°	36.7	36.7	41.3	41.3	43.6
130°	32.1	32.1	36.7	36.7	36.7
132.5°	29.8	27.5	32.1	32.1	34.4
135°	27.5	25.2	27.5	27.5	29.8
137.5°	22.9	22.9	25.2	22.9	25.2
140°	20.6	18.4	20.6	20.6	22.9
142.5°	18.4	16.1	18.4	16.1	18.4
145°	16.1	13.8	13.8	13.8	16.1
147.5°	13.8	11.5	11.5	11.5	13.8
150°	11.5	9.2	9.2	9.2	11.5
152.5°	9.2	6.9	4.6	6.9	9.2
155°	6.9	6.9	2.3	4.6	6.9
157.5°	4.6	4.6	0.0	2.3	4.6
160°	2.3	2.3	0.0	2.3	2.3
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)