

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: P384694

Luminaire Tested: **24ID-55-L830-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384694  
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-55-L830-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

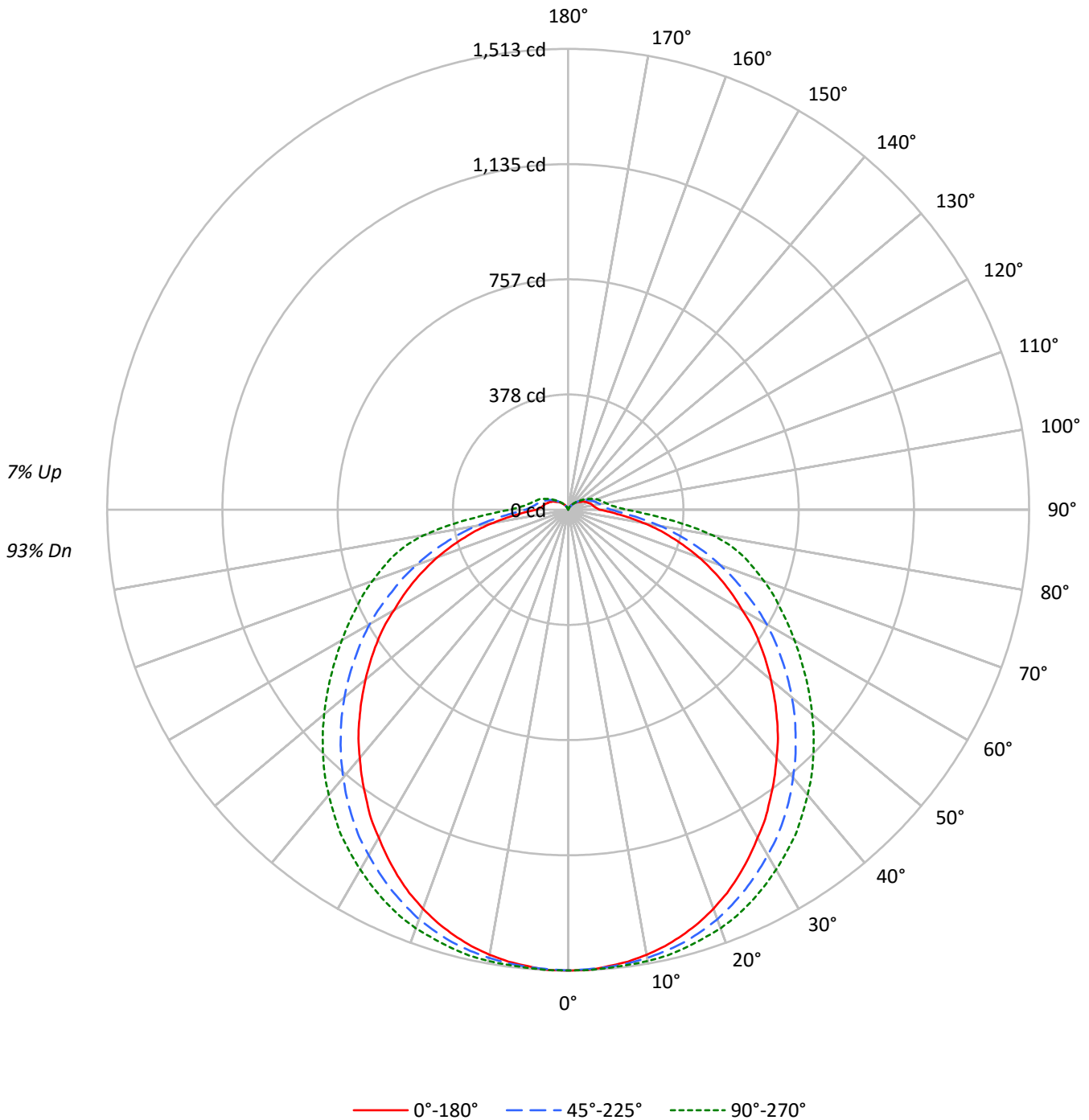
Lumens per Lamp: N/A  
Luminaire Lumens: 5293.4 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 50.2  
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	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°	2035	2035	2035
5°	2021	2013	2017
10°	2005	1995	2011
15°	1982	1978	2007
20°	1951	1954	2003
25°	1912	1923	1992
30°	1865	1890	1978
35°	1820	1857	1966
40°	1776	1815	1943
45°	1735	1774	1924
50°	1692	1732	1905
55°	1654	1687	1892
60°	1603	1647	1898
65°	1571	1584	1929
70°	1533	1530	2002
75°	1480	1451	2115
80°	1435	1354	2179
85°	1450	1248	1963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	2.7
10°-20°	414.5	7.8
20°-30°	633.3	12.0
30°-40°	770.8	14.6
40°-50°	814.7	15.4
50°-60°	769.1	14.5
60°-70°	647.0	12.2
70°-80°	466.5	8.8
80°-90°	246.0	4.6
90°-100°	131.7	2.5
100°-110°	100.0	1.9
110°-120°	72.5	1.4
120°-130°	45.5	0.9
130°-140°	24.6	0.5
140°-150°	10.7	0.2
150°-160°	2.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1191.1	22.5
0°-40°	1962.0	37.1
0°-60°	3545.8	67.0
0°-90°	4905.3	92.7
90°-120°	304.2	5.7
90°-150°	385.1	7.3
90°-180°	388.0	7.3
0°-180°	5293.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1505	1505	1507	1507	1510	143
15°	1447	1452	1470	1481	1489	408
25°	1325	1341	1375	1407	1420	610
35°	1156	1183	1236	1283	1302	724
45°	969	998	1056	1114	1138	748
55°	768	802	855	919	950	687
65°	560	591	639	718	768	553
75°	351	380	417	499	597	373
85°	161	182	203	253	309	151
90°	103	121	140	166	190	59
95°	90	103	119	135	145	72
105°	77	84	95	106	111	80
115°	61	66	74	79	84	61
125°	45	45	53	53	55	40
135°	32	29	32	32	34	24
145°	18	16	16	16	18	12
155°	8	8	3	5	8	4
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°	1512.7	1512.7	1512.7	1512.7	1512.7
2.5°	1512.7	1510.0	1510.0	1510.0	1512.7
5°	1504.7	1504.7	1507.4	1507.4	1510.0
7.5°	1496.8	1496.8	1502.1	1504.7	1507.4
10°	1483.6	1486.3	1494.2	1499.5	1504.7
12.5°	1467.8	1470.4	1483.6	1494.2	1499.5
15°	1446.7	1451.9	1470.4	1481.0	1488.9
17.5°	1422.9	1430.8	1451.9	1467.8	1475.7
20°	1393.9	1404.4	1430.8	1451.9	1462.5
22.5°	1362.2	1372.8	1404.4	1430.8	1444.0
25°	1325.2	1341.1	1375.4	1407.1	1420.3
27.5°	1285.6	1304.1	1343.7	1380.7	1393.9
30°	1243.4	1264.5	1309.4	1349.0	1364.8
32.5°	1203.8	1224.9	1275.1	1317.3	1333.2
35°	1156.3	1182.7	1235.5	1283.0	1301.5
37.5°	1111.4	1137.8	1193.2	1243.4	1261.9
40°	1063.9	1090.3	1148.4	1203.8	1222.3
42.5°	1019.0	1045.4	1103.5	1161.6	1182.7
45°	968.8	997.9	1056.0	1114.0	1137.8
47.5°	918.7	947.7	1008.4	1069.2	1092.9
50°	868.5	900.2	958.3	1019.0	1045.4
52.5°	818.4	850.0	908.1	971.5	997.9
55°	768.2	802.5	855.3	918.7	950.4
57.5°	718.1	752.4	805.2	871.2	902.8
60°	660.0	699.6	752.4	821.0	858.0
62.5°	609.8	644.1	696.9	768.2	813.1
65°	559.7	591.3	638.9	718.1	768.2
67.5°	506.9	541.2	586.1	660.0	728.6
70°	456.7	485.7	530.6	607.2	683.7
72.5°	403.9	432.9	475.2	554.4	638.9
75°	351.1	380.1	417.1	498.9	596.6
77.5°	303.6	327.3	361.7	440.9	546.5
80°	250.8	274.6	306.2	377.5	480.5
82.5°	203.3	224.4	250.8	314.1	396.0
85°	161.0	182.2	203.3	253.4	308.9
87.5°	129.4	145.2	166.3	203.3	240.2
90°	103.0	121.4	139.9	166.3	190.1
92.5°	95.0	110.9	126.7	147.8	163.7
95°	89.8	103.0	118.8	134.6	145.2
97.5°	84.5	97.7	110.9	126.7	134.6
100°	81.8	92.4	105.6	118.8	124.1
102.5°	79.2	87.1	100.3	110.9	118.8
105°	76.6	84.5	95.0	105.6	110.9
107.5°	71.3	79.2	89.8	100.3	105.6
110°	68.6	73.9	84.5	92.4	100.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	66.0	71.3	79.2	87.1	92.4
115°	60.7	66.0	73.9	79.2	84.5
117.5°	58.1	60.7	68.6	71.3	76.6
120°	52.8	55.4	63.4	66.0	68.6
122.5°	47.5	50.2	58.1	58.1	63.4
125°	44.9	44.9	52.8	52.8	55.4
127.5°	42.2	42.2	47.5	47.5	50.2
130°	37.0	37.0	42.2	42.2	42.2
132.5°	34.3	31.7	37.0	37.0	39.6
135°	31.7	29.0	31.7	31.7	34.3
137.5°	26.4	26.4	29.0	26.4	29.0
140°	23.8	21.1	23.8	23.8	26.4
142.5°	21.1	18.5	21.1	18.5	21.1
145°	18.5	15.8	15.8	15.8	18.5
147.5°	15.8	13.2	13.2	13.2	15.8
150°	13.2	10.6	10.6	10.6	13.2
152.5°	10.6	7.9	5.3	7.9	10.6
155°	7.9	7.9	2.6	5.3	7.9
157.5°	5.3	5.3	0.0	2.6	5.3
160°	2.6	2.6	0.0	2.6	2.6
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)