

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: P384355

Luminaire Tested: **24ID-50-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384355
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: 24ID-50-L835-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

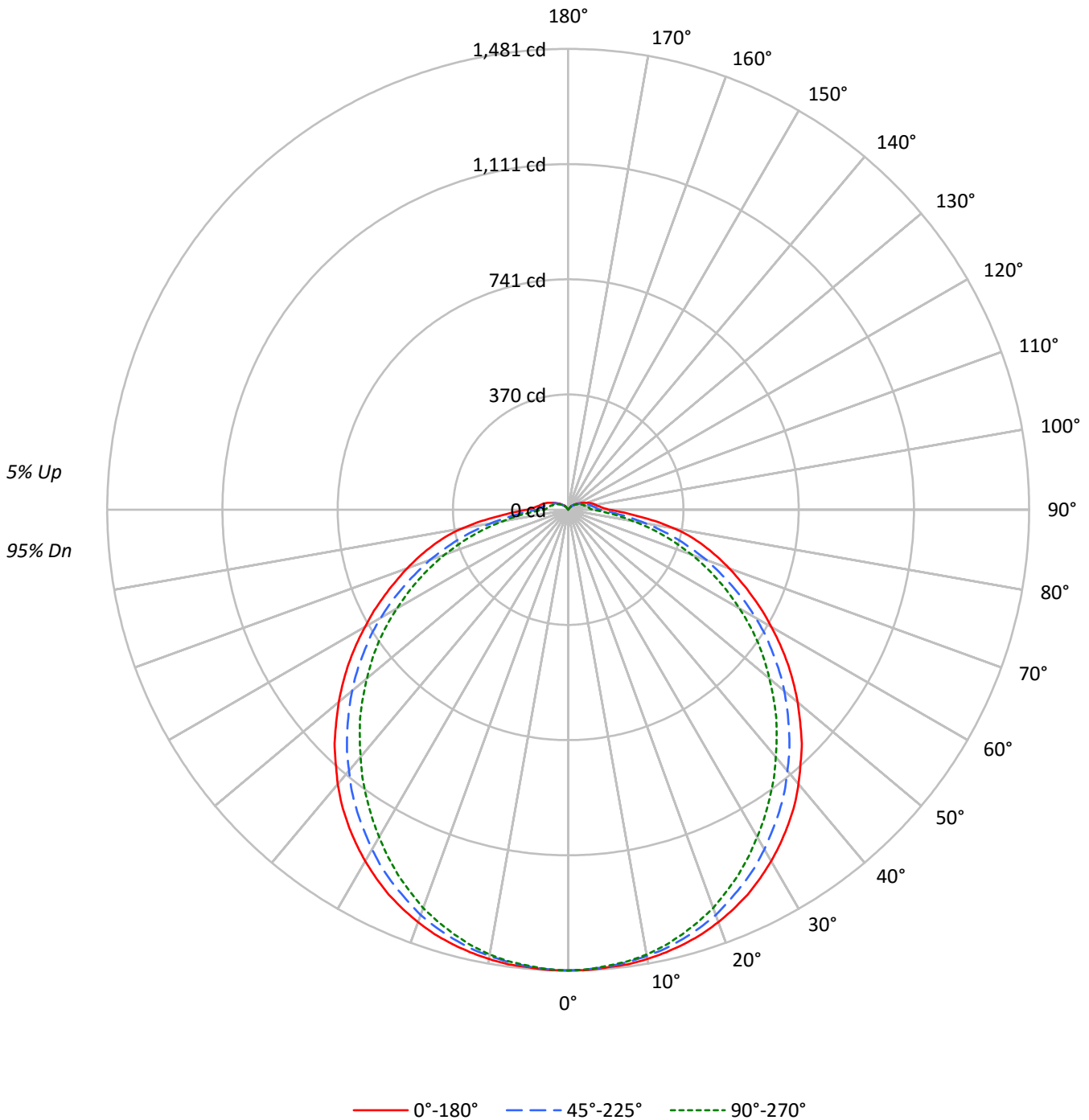
Lumens per Lamp: N/A
Luminaire Lumens: 4803.1 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): 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°	1993	1993	1993
5°	1986	1975	1973
10°	1989	1960	1955
15°	1990	1943	1925
20°	1990	1923	1893
25°	1987	1894	1850
30°	1978	1863	1800
35°	1969	1830	1753
40°	1954	1791	1703
45°	1939	1754	1660
50°	1919	1717	1606
55°	1905	1671	1560
60°	1892	1623	1493
65°	1898	1557	1427
70°	1942	1496	1350
75°	2039	1412	1249
80°	2172	1301	1122
85°	2281	1229	1035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	2.9
10°-20°	403.0	8.4
20°-30°	612.1	12.7
30°-40°	739.4	15.4
40°-50°	773.9	16.1
50°-60°	718.1	15.0
60°-70°	581.7	12.1
70°-80°	392.5	8.2
80°-90°	189.6	3.9
90°-100°	95.4	2.0
100°-110°	69.3	1.4
110°-120°	46.4	1.0
120°-130°	26.9	0.6
130°-140°	13.5	0.3
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1155.3	24.1
0°-40°	1894.7	39.4
0°-60°	3386.7	70.5
0°-90°	4550.6	94.7
90°-120°	211.1	4.4
90°-150°	252.5	5.3
90°-180°	253.0	5.3
0°-180°	4803.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1476	1474	1474	1471	1471	141
15°	1444	1437	1428	1418	1413	408
25°	1364	1352	1328	1304	1294	629
35°	1234	1217	1183	1146	1129	772
45°	1062	1042	1003	962	945	818
55°	860	841	802	764	744	769
65°	650	625	582	550	528	645
75°	453	407	361	334	315	477
85°	218	189	160	145	131	206
90°	131	119	102	92	78	75
95°	104	97	87	78	68	82
105°	78	73	65	58	53	83
115°	53	48	48	41	41	53
125°	34	29	32	27	29	30
135°	19	17	17	17	19	15
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°	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1480.9	1478.5	1478.5	1478.5	1478.5
5°	1476.0	1473.6	1473.6	1471.2	1471.2
7.5°	1473.6	1468.8	1466.3	1463.9	1463.9
10°	1466.3	1461.5	1456.6	1451.8	1451.8
12.5°	1456.6	1451.8	1444.5	1434.8	1434.8
15°	1444.5	1437.3	1427.6	1417.9	1413.0
17.5°	1430.0	1422.7	1408.2	1393.6	1388.8
20°	1410.6	1400.9	1386.4	1367.0	1362.1
22.5°	1388.8	1379.1	1357.3	1337.9	1328.2
25°	1364.5	1352.4	1328.2	1304.0	1294.3
27.5°	1335.5	1323.3	1296.7	1267.6	1255.5
30°	1304.0	1289.4	1260.3	1228.8	1214.3
32.5°	1270.0	1253.1	1221.5	1187.6	1173.1
35°	1233.7	1216.7	1182.8	1146.4	1129.4
37.5°	1194.9	1177.9	1141.6	1102.8	1085.8
40°	1151.3	1134.3	1095.5	1056.7	1037.3
42.5°	1105.2	1090.7	1051.9	1010.7	991.3
45°	1061.6	1042.2	1003.4	962.2	945.2
47.5°	1010.7	996.1	954.9	913.7	894.3
50°	962.2	945.2	906.5	865.3	843.5
52.5°	911.3	896.8	855.6	814.4	795.0
55°	860.4	841.0	802.2	763.5	744.1
57.5°	807.1	790.1	751.3	715.0	690.8
60°	753.8	736.8	695.6	661.7	635.0
62.5°	702.9	683.5	639.9	603.5	581.7
65°	649.6	625.3	581.7	550.2	528.4
67.5°	598.7	569.6	525.9	496.9	475.0
70°	550.2	516.2	472.6	443.5	421.7
72.5°	501.7	460.5	414.5	387.8	368.4
75°	453.2	407.2	361.1	334.5	315.1
77.5°	404.8	351.4	305.4	283.6	264.2
80°	346.6	295.7	252.1	232.7	213.3
82.5°	281.2	239.9	203.6	184.2	169.7
85°	218.1	189.0	160.0	145.4	130.9
87.5°	169.7	147.8	126.0	113.9	101.8
90°	130.9	118.8	101.8	92.1	77.6
92.5°	113.9	104.2	92.1	82.4	70.3
95°	104.2	96.9	87.3	77.6	67.9
97.5°	94.5	89.7	80.0	72.7	63.0
100°	89.7	82.4	75.1	67.9	60.6
102.5°	84.8	77.6	70.3	63.0	58.2
105°	77.6	72.7	65.4	58.2	53.3
107.5°	72.7	65.4	60.6	53.3	50.9
110°	65.4	60.6	55.7	50.9	48.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.2	55.7	50.9	46.1	43.6
115°	53.3	48.5	48.5	41.2	41.2
117.5°	48.5	43.6	43.6	38.8	38.8
120°	41.2	38.8	38.8	33.9	33.9
122.5°	36.4	33.9	33.9	31.5	31.5
125°	33.9	29.1	31.5	26.7	29.1
127.5°	29.1	26.7	26.7	24.2	26.7
130°	24.2	21.8	21.8	21.8	24.2
132.5°	21.8	19.4	19.4	19.4	21.8
135°	19.4	17.0	17.0	17.0	19.4
137.5°	17.0	14.5	12.1	14.5	17.0
140°	14.5	12.1	9.7	12.1	14.5
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)