

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: P384357

Luminaire Tested: **24ID-50-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384357
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-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

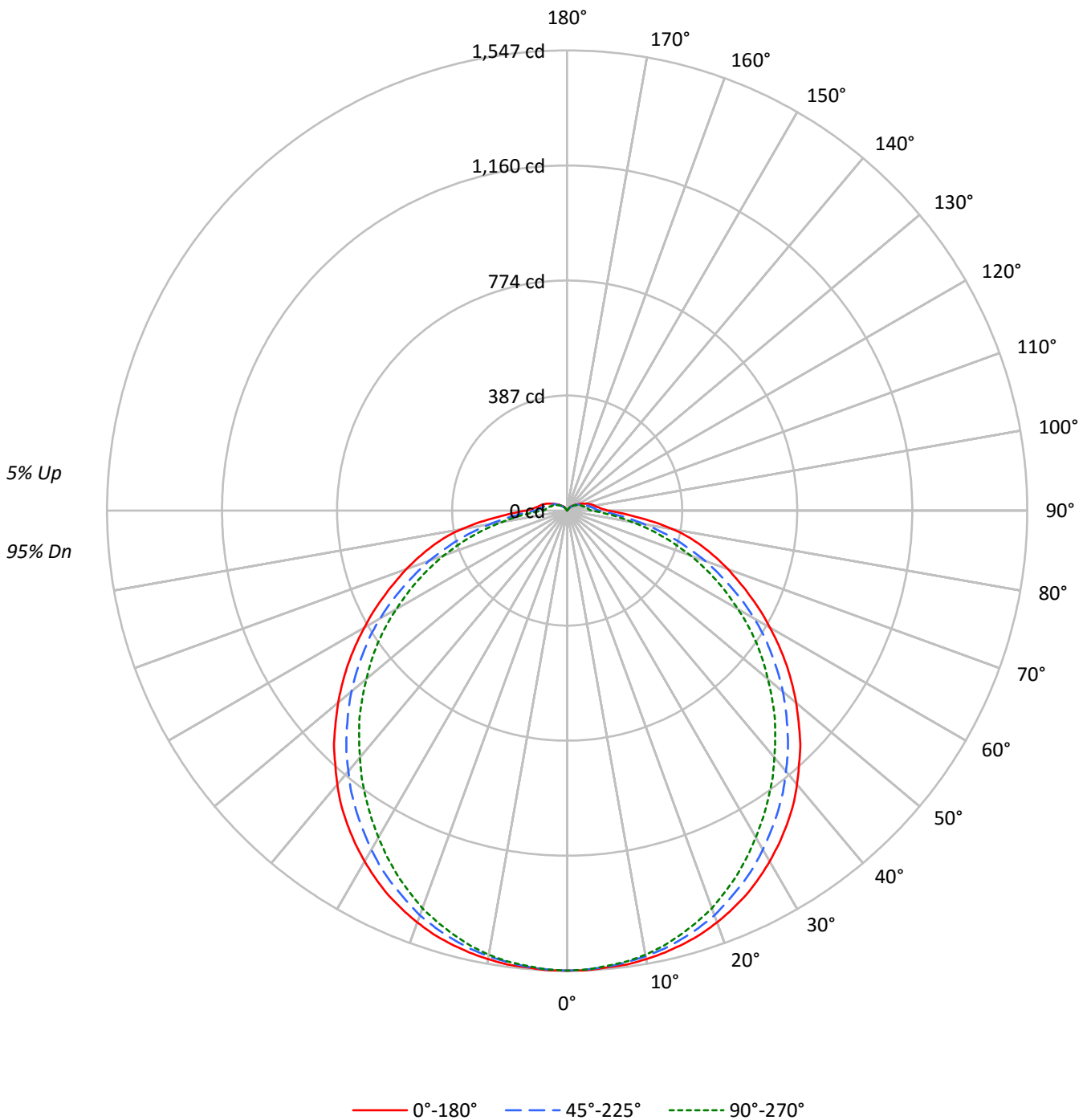
Lumens per Lamp: N/A
Luminaire Lumens: 5016.6 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): 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°	2081	2081	2081
5°	2075	2063	2060
10°	2077	2047	2042
15°	2078	2029	2011
20°	2078	2009	1977
25°	2076	1978	1932
30°	2066	1946	1880
35°	2056	1911	1831
40°	2041	1871	1779
45°	2025	1832	1734
50°	2004	1793	1677
55°	1990	1745	1629
60°	1976	1695	1560
65°	1983	1626	1491
70°	2028	1562	1410
75°	2130	1474	1305
80°	2269	1359	1172
85°	2382	1283	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	2.9
10°-20°	420.9	8.4
20°-30°	639.4	12.7
30°-40°	772.3	15.4
40°-50°	808.3	16.1
50°-60°	750.0	15.0
60°-70°	607.5	12.1
70°-80°	410.0	8.2
80°-90°	198.1	3.9
90°-100°	99.6	2.0
100°-110°	72.4	1.4
110°-120°	48.4	1.0
120°-130°	28.0	0.6
130°-140°	14.2	0.3
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1206.7	24.1
0°-40°	1979.0	39.4
0°-60°	3537.3	70.5
0°-90°	4752.8	94.7
90°-120°	220.5	4.4
90°-150°	263.8	5.3
90°-180°	264.0	5.3
0°-180°	5016.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1542	1539	1539	1537	1537	147
15°	1509	1501	1491	1481	1476	426
25°	1425	1412	1387	1362	1352	657
35°	1288	1271	1235	1197	1180	806
45°	1109	1088	1048	1005	987	854
55°	899	878	838	797	777	803
65°	678	653	608	575	552	673
75°	473	425	377	349	329	499
85°	228	198	167	152	137	215
90°	137	124	106	96	81	78
95°	109	101	91	81	71	86
105°	81	76	68	61	56	86
115°	56	51	51	43	43	55
125°	35	30	33	28	30	31
135°	20	18	18	18	20	16
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°	1546.7	1546.7	1546.7	1546.7	1546.7
2.5°	1546.7	1544.2	1544.2	1544.2	1544.2
5°	1541.6	1539.1	1539.1	1536.6	1536.6
7.5°	1539.1	1534.1	1531.5	1529.0	1529.0
10°	1531.5	1526.5	1521.4	1516.3	1516.3
12.5°	1521.4	1516.3	1508.7	1498.6	1498.6
15°	1508.7	1501.1	1491.0	1480.9	1475.8
17.5°	1493.6	1486.0	1470.8	1455.6	1450.5
20°	1473.3	1463.2	1448.0	1427.7	1422.7
22.5°	1450.5	1440.4	1417.6	1397.4	1387.2
25°	1425.2	1412.5	1387.2	1361.9	1351.8
27.5°	1394.8	1382.2	1354.3	1323.9	1311.3
30°	1361.9	1346.7	1316.4	1283.4	1268.3
32.5°	1326.5	1308.8	1275.8	1240.4	1225.2
35°	1288.5	1270.8	1235.3	1197.4	1179.7
37.5°	1248.0	1230.3	1192.3	1151.8	1134.1
40°	1202.4	1184.7	1144.2	1103.7	1083.5
42.5°	1154.3	1139.1	1098.6	1055.6	1035.4
45°	1108.8	1088.5	1048.0	1005.0	987.3
47.5°	1055.6	1040.4	997.4	954.4	934.1
50°	1005.0	987.3	946.8	903.7	880.9
52.5°	951.8	936.6	893.6	850.6	830.3
55°	898.7	878.4	837.9	797.4	777.2
57.5°	843.0	825.3	784.7	746.8	721.5
60°	787.3	769.6	726.5	691.1	663.2
62.5°	734.1	713.9	668.3	630.3	607.5
65°	678.4	653.1	607.5	574.6	551.9
67.5°	625.3	594.9	549.3	518.9	496.2
70°	574.6	539.2	493.6	463.3	440.5
72.5°	524.0	481.0	432.9	405.0	384.8
75°	473.4	425.3	377.2	349.3	329.1
77.5°	422.8	367.1	319.0	296.2	275.9
80°	362.0	308.8	263.3	243.0	222.8
82.5°	293.6	250.6	212.6	192.4	177.2
85°	227.8	197.5	167.1	151.9	136.7
87.5°	177.2	154.4	131.6	119.0	106.3
90°	136.7	124.0	106.3	96.2	81.0
92.5°	119.0	108.9	96.2	86.1	73.4
95°	108.9	101.3	91.1	81.0	70.9
97.5°	98.7	93.7	83.5	75.9	65.8
100°	93.7	86.1	78.5	70.9	63.3
102.5°	88.6	81.0	73.4	65.8	60.8
105°	81.0	75.9	68.3	60.8	55.7
107.5°	75.9	68.3	63.3	55.7	53.2
110°	68.3	63.3	58.2	53.2	50.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.8	58.2	53.2	48.1	45.6
115°	55.7	50.6	50.6	43.0	43.0
117.5°	50.6	45.6	45.6	40.5	40.5
120°	43.0	40.5	40.5	35.4	35.4
122.5°	38.0	35.4	35.4	32.9	32.9
125°	35.4	30.4	32.9	27.8	30.4
127.5°	30.4	27.8	27.8	25.3	27.8
130°	25.3	22.8	22.8	22.8	25.3
132.5°	22.8	20.3	20.3	20.3	22.8
135°	20.3	17.7	17.7	17.7	20.3
137.5°	17.7	15.2	12.7	15.2	17.7
140°	15.2	12.7	10.1	12.7	15.2
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)