

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: P384185

Luminaire Tested: **24ID-45-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-45-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

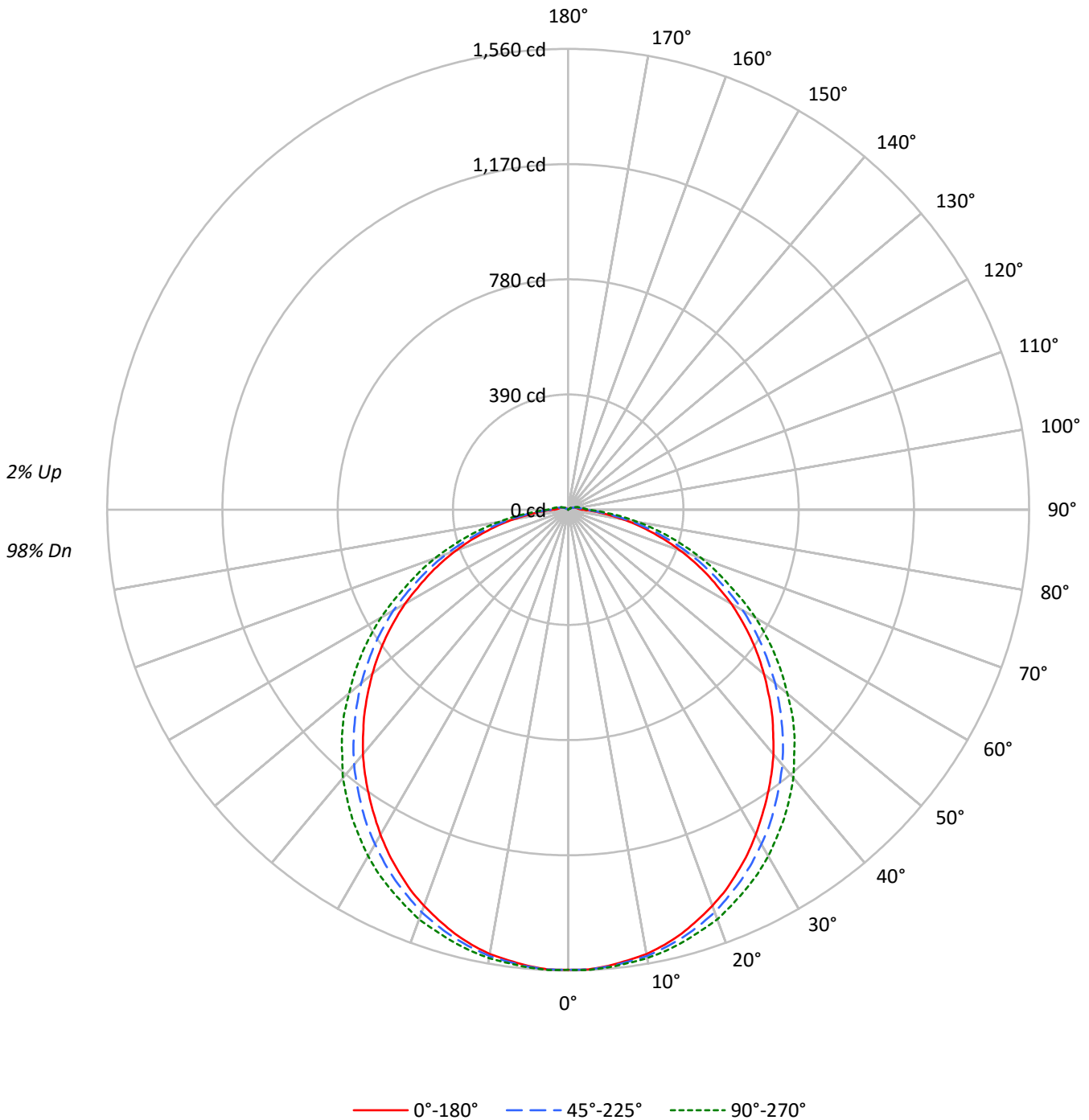
Lumens per Lamp: N/A
Luminaire Lumens: 4613.1 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 40
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2096	2096	2096
5°	2090	2089	2093
10°	2079	2080	2090
15°	2057	2064	2085
20°	2027	2043	2081
25°	1991	2014	2067
30°	1950	1981	2054
35°	1905	1945	2034
40°	1865	1909	2012
45°	1818	1862	1978
50°	1767	1818	1931
55°	1716	1765	1890
60°	1658	1707	1837
65°	1582	1619	1750
70°	1497	1534	1692
75°	1399	1420	1599
80°	1297	1289	1496
85°	1254	1199	1418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.2
10°-20°	422.9	9.2
20°-30°	638.4	13.8
30°-40°	765.0	16.6
40°-50°	790.9	17.1
50°-60°	716.2	15.5
60°-70°	554.2	12.0
70°-80°	340.4	7.4
80°-90°	135.3	2.9
90°-100°	49.4	1.1
100°-110°	30.3	0.7
110°-120°	15.6	0.3
120°-130°	6.7	0.1
130°-140°	0.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1208.8	26.2
0°-40°	1973.8	42.8
0°-60°	3480.8	75.5
0°-90°	4510.7	97.8
90°-120°	95.3	2.1
90°-150°	102.4	2.2
90°-180°	102.0	2.2
0°-180°	4613.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1551	1551	1553	1553	1555	147
15°	1485	1487	1499	1508	1513	419
25°	1354	1364	1384	1408	1420	624
35°	1176	1190	1221	1254	1275	737
45°	975	987	1022	1064	1083	752
55°	753	769	800	835	854	673
65°	519	531	557	585	599	514
75°	290	304	318	339	356	309
85°	101	108	117	129	136	100
90°	47	54	58	66	70	28
95°	35	40	44	49	54	28
105°	26	26	28	30	33	27
115°	16	14	14	16	19	17
125°	9	7	5	7	9	9
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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°	1557.6	1557.6	1557.6	1557.6	1557.6
2.5°	1557.6	1555.3	1557.6	1557.6	1559.9
5°	1550.6	1550.6	1552.9	1552.9	1555.3
7.5°	1538.9	1538.9	1543.6	1545.9	1548.2
10°	1527.2	1527.2	1534.2	1536.5	1541.2
12.5°	1508.5	1510.8	1517.8	1524.9	1529.5
15°	1485.1	1487.4	1499.1	1508.5	1513.2
17.5°	1457.0	1461.7	1475.7	1489.8	1494.4
20°	1426.6	1433.6	1450.0	1466.4	1475.7
22.5°	1393.9	1398.6	1417.3	1438.3	1447.7
25°	1354.1	1363.5	1384.5	1407.9	1419.6
27.5°	1314.4	1323.7	1347.1	1375.2	1389.2
30°	1269.9	1279.3	1307.4	1337.8	1354.1
32.5°	1223.2	1234.8	1267.6	1298.0	1314.4
35°	1176.4	1190.4	1220.8	1253.6	1274.6
37.5°	1129.6	1141.3	1174.0	1209.1	1230.2
40°	1080.5	1092.2	1127.3	1162.3	1185.7
42.5°	1026.7	1040.7	1075.8	1113.2	1131.9
45°	975.3	986.9	1022.0	1064.1	1082.8
47.5°	919.1	935.5	968.2	1008.0	1029.0
50°	865.3	879.4	914.4	951.9	968.2
52.5°	809.2	823.2	856.0	893.4	912.1
55°	753.1	769.4	799.8	834.9	853.6
57.5°	694.6	711.0	741.4	771.8	792.8
60°	638.5	654.8	682.9	713.3	732.0
62.5°	575.3	589.4	619.8	652.5	666.5
65°	519.2	530.9	556.6	584.7	598.7
67.5°	460.7	474.8	498.1	523.9	540.2
70°	402.3	418.6	437.3	460.7	479.4
72.5°	346.1	360.2	376.5	399.9	416.3
75°	290.0	304.0	318.1	339.1	355.5
77.5°	240.9	247.9	261.9	280.6	297.0
80°	187.1	196.5	208.1	226.9	238.6
82.5°	140.3	149.7	159.0	173.1	184.8
85°	100.6	107.6	116.9	128.6	135.6
87.5°	67.8	74.8	81.9	91.2	98.2
90°	46.8	53.8	58.5	65.5	70.2
92.5°	39.8	44.4	49.1	53.8	58.5
95°	35.1	39.8	44.4	49.1	53.8
97.5°	32.7	35.1	39.8	44.4	46.8
100°	30.4	32.7	35.1	39.8	42.1
102.5°	28.1	28.1	32.7	35.1	37.4
105°	25.7	25.7	28.1	30.4	32.7
107.5°	23.4	23.4	25.7	25.7	30.4
110°	21.0	18.7	21.0	21.0	25.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.7	16.4	18.7	18.7	21.0
115°	16.4	14.0	14.0	16.4	18.7
117.5°	14.0	11.7	11.7	11.7	16.4
120°	14.0	11.7	9.4	9.4	14.0
122.5°	11.7	9.4	7.0	9.4	11.7
125°	9.4	7.0	4.7	7.0	9.4
127.5°	7.0	7.0	2.3	4.7	7.0
130°	7.0	4.7	2.3	4.7	4.7
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)