

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: P384245

Luminaire Tested: **14ID-45-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384245
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: 14ID-45-L850-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

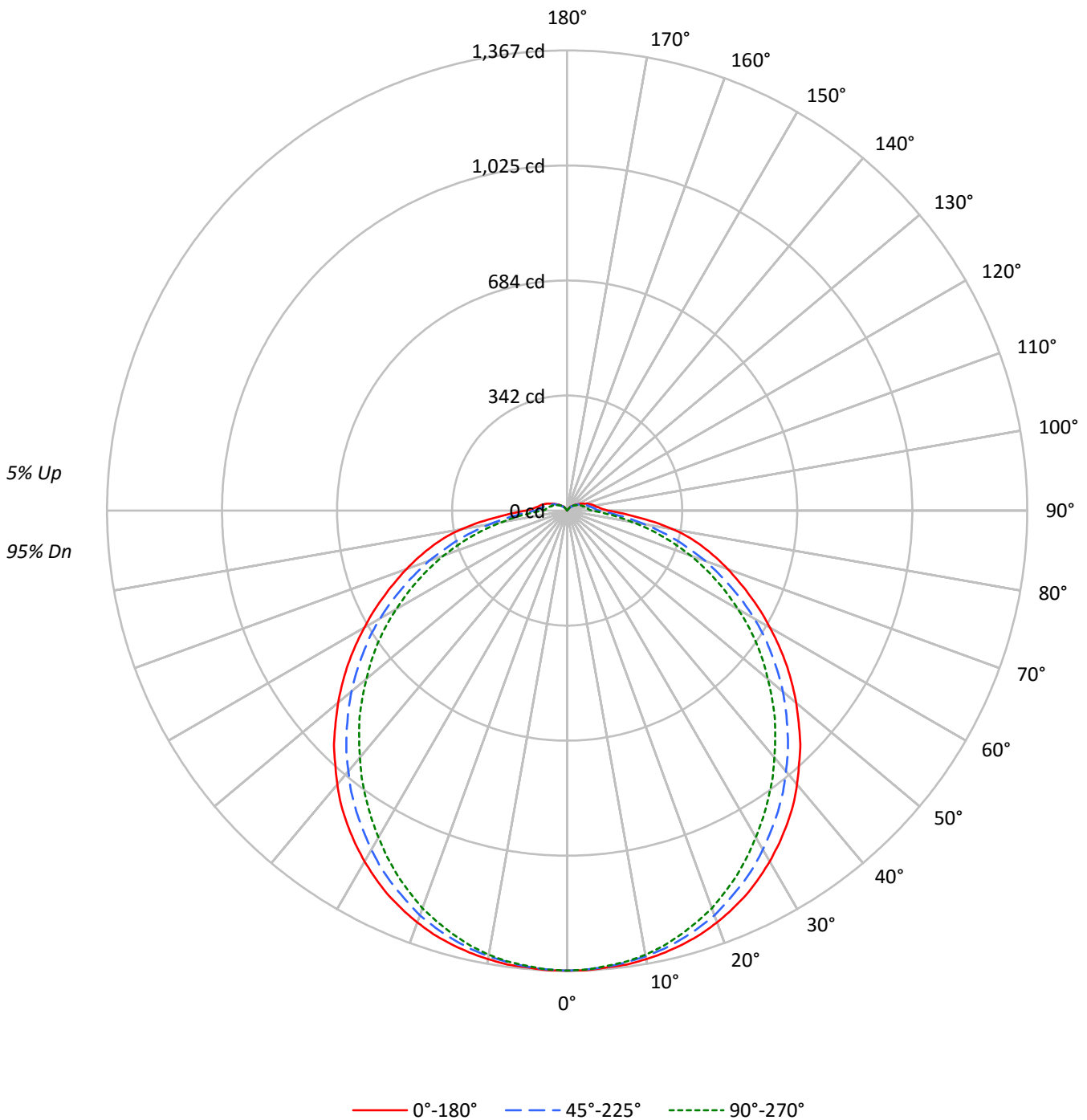
Lumens per Lamp: N/A
Luminaire Lumens: 4432.9 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 38.5
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



TEST NUMBER: P384245
CATALOG NUMBER: 14ID-45-L850-CFD2

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°	3678	3678	3678
5°	3667	3627	3615
10°	3671	3581	3557
15°	3673	3531	3478
20°	3673	3478	3394
25°	3668	3406	3291
30°	3652	3331	3177
35°	3634	3251	3066
40°	3606	3161	2951
45°	3580	3072	2846
50°	3542	2979	2719
55°	3516	2870	2602
60°	3492	2753	2448
65°	3504	2598	2287
70°	3585	2443	2100
75°	3764	2236	1864
80°	4010	1964	1568
85°	4210	1698	1284



TEST NUMBER: P384245

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	2.9
10°-20°	372.0	8.4
20°-30°	565.0	12.7
30°-40°	682.4	15.4
40°-50°	714.3	16.1
50°-60°	662.8	15.0
60°-70°	536.8	12.1
70°-80°	362.3	8.2
80°-90°	175.0	3.9
90°-100°	88.0	2.0
100°-110°	64.0	1.4
110°-120°	42.8	1.0
120°-130°	24.8	0.6
130°-140°	12.5	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°	1066.3	24.1
0°-40°	1748.7	39.4
0°-60°	3125.7	70.5
0°-90°	4199.8	94.7
90°-120°	194.8	4.4
90°-150°	233.1	5.3
90°-180°	233.0	5.3
0°-180°	4432.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1362	1360	1360	1358	1358	130
15°	1333	1326	1318	1309	1304	377
25°	1259	1248	1226	1204	1194	580
35°	1139	1123	1092	1058	1042	712
45°	980	962	926	888	872	755
55°	794	776	740	705	687	710
65°	600	577	537	508	488	595
75°	418	376	333	309	291	441
85°	201	174	148	134	121	190
90°	121	110	94	85	72	69
95°	96	90	80	72	63	76
105°	72	67	60	54	49	76
115°	49	45	45	38	38	49
125°	31	27	29	25	27	27
135°	18	16	16	16	18	14
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°	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1366.7	1364.5	1364.5	1364.5	1364.5
5°	1362.3	1360.0	1360.0	1357.8	1357.8
7.5°	1360.0	1355.6	1353.3	1351.1	1351.1
10°	1353.3	1348.9	1344.4	1339.9	1339.9
12.5°	1344.4	1339.9	1333.2	1324.2	1324.2
15°	1333.2	1326.5	1317.5	1308.6	1304.1
17.5°	1319.8	1313.1	1299.6	1286.2	1281.7
20°	1301.9	1292.9	1279.5	1261.6	1257.1
22.5°	1281.7	1272.8	1252.7	1234.8	1225.8
25°	1259.4	1248.2	1225.8	1203.5	1194.5
27.5°	1232.5	1221.3	1196.7	1169.9	1158.7
30°	1203.5	1190.0	1163.2	1134.1	1120.7
32.5°	1172.1	1156.5	1127.4	1096.1	1082.7
35°	1138.6	1122.9	1091.6	1058.1	1042.4
37.5°	1102.8	1087.1	1053.6	1017.8	1002.1
40°	1062.5	1046.9	1011.1	975.3	957.4
42.5°	1020.0	1006.6	970.8	932.8	914.9
45°	979.8	961.9	926.1	888.0	872.4
47.5°	932.8	919.4	881.3	843.3	825.4
50°	888.0	872.4	836.6	798.6	778.4
52.5°	841.1	827.7	789.6	751.6	733.7
55°	794.1	776.2	740.4	704.6	686.7
57.5°	744.9	729.2	693.4	659.9	637.5
60°	695.7	680.0	642.0	610.7	586.1
62.5°	648.7	630.8	590.5	557.0	536.9
65°	599.5	577.1	536.9	507.8	487.6
67.5°	552.5	525.7	485.4	458.6	438.4
70°	507.8	476.5	436.2	409.4	389.2
72.5°	463.0	425.0	382.5	357.9	340.0
75°	418.3	375.8	333.3	308.7	290.8
77.5°	373.6	324.4	281.8	261.7	243.8
80°	319.9	272.9	232.6	214.7	196.8
82.5°	259.5	221.5	187.9	170.0	156.6
85°	201.3	174.5	147.6	134.2	120.8
87.5°	156.6	136.5	116.3	105.1	93.9
90°	120.8	109.6	93.9	85.0	71.6
92.5°	105.1	96.2	85.0	76.1	64.9
95°	96.2	89.5	80.5	71.6	62.6
97.5°	87.2	82.8	73.8	67.1	58.2
100°	82.8	76.1	69.3	62.6	55.9
102.5°	78.3	71.6	64.9	58.2	53.7
105°	71.6	67.1	60.4	53.7	49.2
107.5°	67.1	60.4	55.9	49.2	47.0
110°	60.4	55.9	51.4	47.0	44.7



TEST NUMBER: P384245

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.7	51.4	47.0	42.5	40.3
115°	49.2	44.7	44.7	38.0	38.0
117.5°	44.7	40.3	40.3	35.8	35.8
120°	38.0	35.8	35.8	31.3	31.3
122.5°	33.6	31.3	31.3	29.1	29.1
125°	31.3	26.8	29.1	24.6	26.8
127.5°	26.8	24.6	24.6	22.4	24.6
130°	22.4	20.1	20.1	20.1	22.4
132.5°	20.1	17.9	17.9	17.9	20.1
135°	17.9	15.7	15.7	15.7	17.9
137.5°	15.7	13.4	11.2	13.4	15.7
140°	13.4	11.2	8.9	11.2	13.4
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)