

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: P384133

Luminaire Tested: **22ID-45-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384133
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: 22ID-45-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

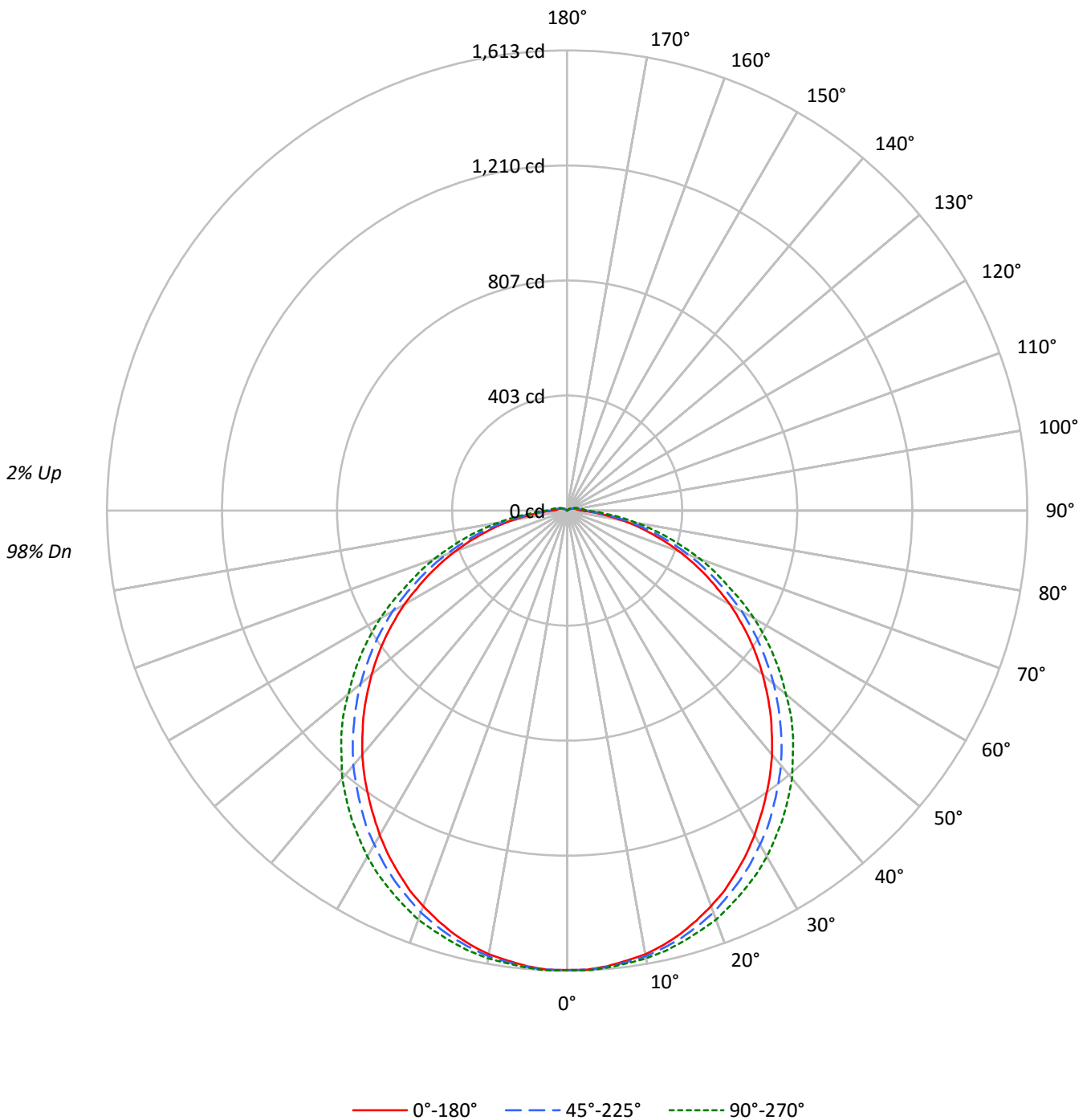
Lumens per Lamp: N/A
Luminaire Lumens: 4770.3 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 37.5
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	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°	4334	4334	4334
5°	4315	4315	4329
10°	4284	4291	4323
15°	4231	4252	4311
20°	4161	4204	4305
25°	4079	4137	4276
30°	3985	4063	4249
35°	3883	3983	4207
40°	3792	3902	4162
45°	3685	3798	4091
50°	3569	3699	3993
55°	3448	3579	3909
60°	3314	3449	3800
65°	3138	3254	3619
70°	2937	3062	3500
75°	2699	2803	3308
80°	2426	2500	3093
85°	2175	2231	2935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	3.2
10°-20°	437.3	9.2
20°-30°	660.2	13.8
30°-40°	791.0	16.6
40°-50°	817.8	17.1
50°-60°	740.6	15.5
60°-70°	573.1	12.0
70°-80°	352.0	7.4
80°-90°	139.9	2.9
90°-100°	51.0	1.1
100°-110°	31.4	0.7
110°-120°	16.1	0.3
120°-130°	6.9	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°	1250.0	26.2
0°-40°	2041.0	42.8
0°-60°	3599.4	75.5
0°-90°	4664.4	97.8
90°-120°	98.5	2.1
90°-150°	105.9	2.2
90°-180°	106.0	2.2
0°-180°	4770.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1603	1603	1606	1606	1608	152
15°	1536	1538	1550	1560	1565	433
25°	1400	1410	1432	1456	1468	645
35°	1216	1231	1262	1296	1318	762
45°	1008	1021	1057	1100	1120	777
55°	779	796	827	863	883	696
65°	537	549	576	605	619	531
75°	300	314	329	351	368	320
85°	104	111	121	133	140	104
90°	48	56	60	68	73	29
95°	36	41	46	51	56	29
105°	27	27	29	31	34	28
115°	17	14	14	17	19	17
125°	10	7	5	7	10	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°	1610.7	1610.7	1610.7	1610.7	1610.7
2.5°	1610.7	1608.3	1610.7	1610.7	1613.1
5°	1603.4	1603.4	1605.8	1605.8	1608.3
7.5°	1591.3	1591.3	1596.2	1598.6	1601.0
10°	1579.2	1579.2	1586.5	1588.9	1593.7
12.5°	1559.9	1562.3	1569.6	1576.8	1581.7
15°	1535.7	1538.1	1550.2	1559.9	1564.7
17.5°	1506.7	1511.5	1526.0	1540.5	1545.4
20°	1475.2	1482.5	1499.4	1516.4	1526.0
22.5°	1441.4	1446.2	1465.6	1487.3	1497.0
25°	1400.3	1409.9	1431.7	1455.9	1468.0
27.5°	1359.2	1368.8	1393.0	1422.0	1436.5
30°	1313.2	1322.9	1351.9	1383.3	1400.3
32.5°	1264.8	1276.9	1310.8	1342.2	1359.2
35°	1216.5	1231.0	1262.4	1296.3	1318.0
37.5°	1168.1	1180.2	1214.1	1250.3	1272.1
40°	1117.3	1129.4	1165.7	1202.0	1226.1
42.5°	1061.7	1076.2	1112.5	1151.2	1170.5
45°	1008.5	1020.6	1056.9	1100.4	1119.7
47.5°	950.4	967.4	1001.2	1042.3	1064.1
50°	894.8	909.3	945.6	984.3	1001.2
52.5°	836.8	851.3	885.1	923.8	943.2
55°	778.7	795.7	827.1	863.4	882.7
57.5°	718.3	735.2	766.6	798.1	819.8
60°	660.2	677.2	706.2	737.6	757.0
62.5°	594.9	609.4	640.9	674.7	689.3
65°	536.9	549.0	575.6	604.6	619.1
67.5°	476.4	490.9	515.1	541.7	558.7
70°	416.0	432.9	452.2	476.4	495.8
72.5°	357.9	372.4	389.4	413.6	430.5
75°	299.9	314.4	328.9	350.7	367.6
77.5°	249.1	256.4	270.9	290.2	307.1
80°	193.5	203.1	215.2	234.6	246.7
82.5°	145.1	154.8	164.5	179.0	191.1
85°	104.0	111.2	120.9	133.0	140.3
87.5°	70.1	77.4	84.6	94.3	101.6
90°	48.4	55.6	60.5	67.7	72.6
92.5°	41.1	46.0	50.8	55.6	60.5
95°	36.3	41.1	46.0	50.8	55.6
97.5°	33.9	36.3	41.1	46.0	48.4
100°	31.4	33.9	36.3	41.1	43.5
102.5°	29.0	29.0	33.9	36.3	38.7
105°	26.6	26.6	29.0	31.4	33.9
107.5°	24.2	24.2	26.6	26.6	31.4
110°	21.8	19.3	21.8	21.8	26.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.3	16.9	19.3	19.3	21.8
115°	16.9	14.5	14.5	16.9	19.3
117.5°	14.5	12.1	12.1	12.1	16.9
120°	14.5	12.1	9.7	9.7	14.5
122.5°	12.1	9.7	7.3	9.7	12.1
125°	9.7	7.3	4.8	7.3	9.7
127.5°	7.3	7.3	2.4	4.8	7.3
130°	7.3	4.8	2.4	4.8	4.8
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)