

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: P384301

Luminaire Tested: **22ID-45-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384301
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: 22ID-45-L850-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

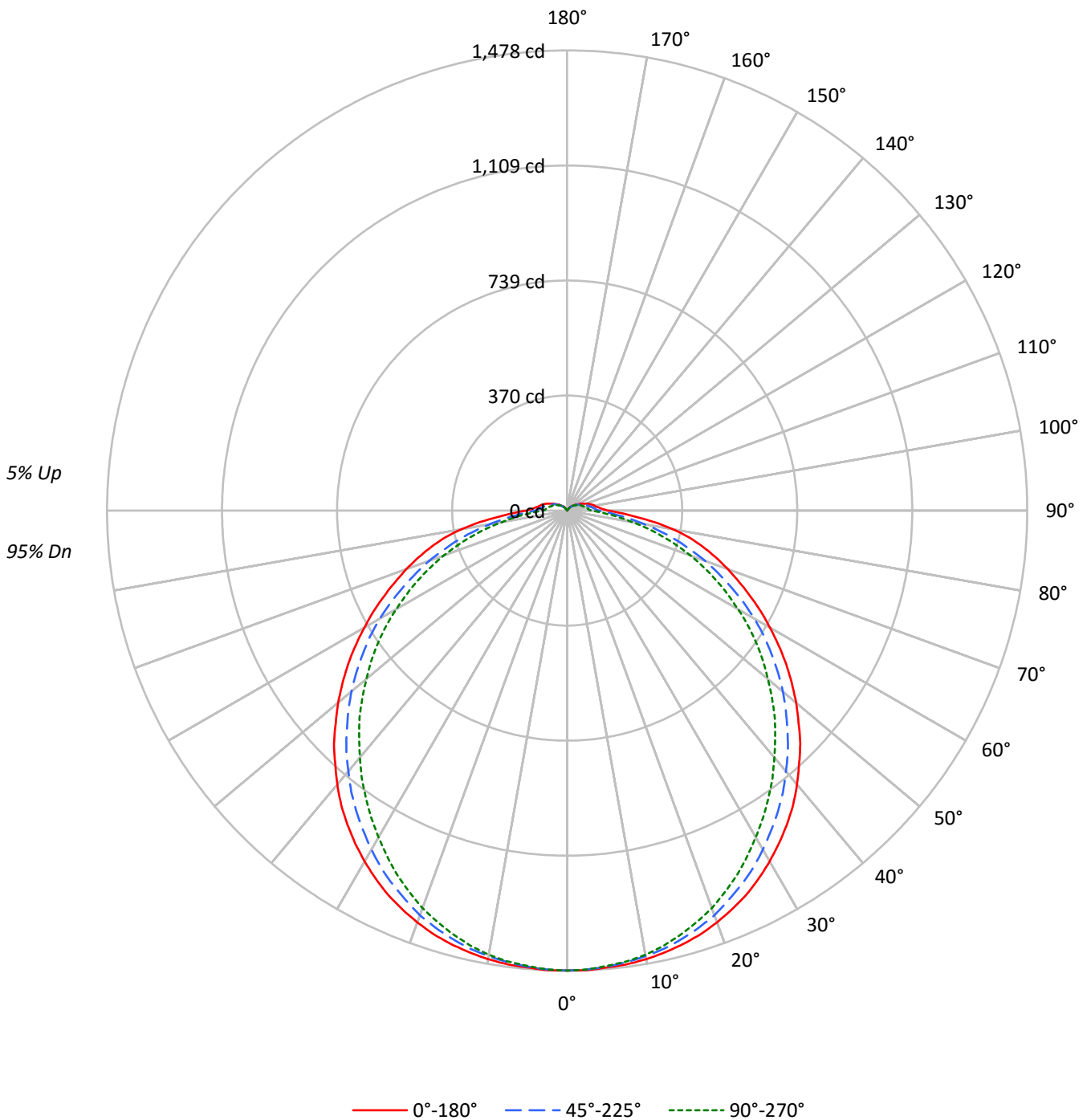
Lumens per Lamp: N/A
Luminaire Lumens: 4792.1 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

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	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°	3976	3976	3976
5°	3949	3931	3936
10°	3940	3890	3901
15°	3927	3846	3842
20°	3912	3798	3777
25°	3891	3730	3691
30°	3857	3658	3592
35°	3820	3581	3498
40°	3771	3494	3398
45°	3721	3408	3313
50°	3656	3320	3205
55°	3599	3214	3113
60°	3537	3102	2980
65°	3501	2950	2848
70°	3514	2802	2694
75°	3586	2602	2493
80°	3639	2336	2239
85°	3441	2100	2065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	2.9
10°-20°	402.1	8.4
20°-30°	610.7	12.7
30°-40°	737.7	15.4
40°-50°	772.1	16.1
50°-60°	716.5	15.0
60°-70°	580.3	12.1
70°-80°	391.6	8.2
80°-90°	189.2	3.9
90°-100°	95.2	2.0
100°-110°	69.2	1.4
110°-120°	46.2	1.0
120°-130°	26.8	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°	1152.7	24.1
0°-40°	1890.4	39.4
0°-60°	3379.0	70.5
0°-90°	4540.2	94.7
90°-120°	210.6	4.4
90°-150°	252.0	5.3
90°-180°	252.0	5.3
0°-180°	4792.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1473	1470	1470	1468	1468	140
15°	1441	1434	1424	1415	1410	407
25°	1361	1349	1325	1301	1291	627
35°	1231	1214	1180	1144	1127	770
45°	1059	1040	1001	960	943	816
55°	858	839	800	762	742	767
65°	648	624	580	549	527	643
75°	452	406	360	334	314	476
85°	218	189	160	145	131	206
90°	131	118	102	92	77	75
95°	104	97	87	77	68	82
105°	77	72	65	58	53	83
115°	53	48	48	41	41	53
125°	34	29	31	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°	1477.5	1477.5	1477.5	1477.5	1477.5
2.5°	1477.5	1475.1	1475.1	1475.1	1475.1
5°	1472.7	1470.2	1470.2	1467.8	1467.8
7.5°	1470.2	1465.4	1463.0	1460.6	1460.6
10°	1463.0	1458.1	1453.3	1448.5	1448.5
12.5°	1453.3	1448.5	1441.2	1431.5	1431.5
15°	1441.2	1434.0	1424.3	1414.6	1409.8
17.5°	1426.7	1419.5	1404.9	1390.4	1385.6
20°	1407.4	1397.7	1383.2	1363.8	1359.0
22.5°	1385.6	1375.9	1354.2	1334.8	1325.2
25°	1361.4	1349.3	1325.2	1301.0	1291.3
27.5°	1332.4	1320.3	1293.7	1264.7	1252.6
30°	1301.0	1286.5	1257.4	1226.0	1211.5
32.5°	1267.1	1250.2	1218.8	1184.9	1170.4
35°	1230.8	1213.9	1180.1	1143.8	1126.9
37.5°	1192.2	1175.2	1139.0	1100.3	1083.3
40°	1148.6	1131.7	1093.0	1054.3	1035.0
42.5°	1102.7	1088.2	1049.5	1008.4	989.0
45°	1059.2	1039.8	1001.1	960.0	943.1
47.5°	1008.4	993.9	952.8	911.6	892.3
50°	960.0	943.1	904.4	863.3	841.5
52.5°	909.2	894.7	853.6	812.5	793.2
55°	858.4	839.1	800.4	761.7	742.4
57.5°	805.2	788.3	749.6	713.4	689.2
60°	752.0	735.1	694.0	660.2	633.6
62.5°	701.3	681.9	638.4	602.1	580.4
65°	648.1	623.9	580.4	548.9	527.2
67.5°	597.3	568.3	524.7	495.7	474.0
70°	548.9	515.1	471.5	442.5	420.8
72.5°	500.6	459.5	413.5	386.9	367.6
75°	452.2	406.3	360.3	333.7	314.4
77.5°	403.8	350.6	304.7	282.9	263.6
80°	345.8	295.0	251.5	232.1	212.8
82.5°	280.5	239.4	203.1	183.8	169.3
85°	217.6	188.6	159.6	145.1	130.6
87.5°	169.3	147.5	125.7	113.7	101.6
90°	130.6	118.5	101.6	91.9	77.4
92.5°	113.7	104.0	91.9	82.2	70.1
95°	104.0	96.7	87.1	77.4	67.7
97.5°	94.3	89.5	79.8	72.5	62.9
100°	89.5	82.2	75.0	67.7	60.5
102.5°	84.6	77.4	70.1	62.9	58.0
105°	77.4	72.5	65.3	58.0	53.2
107.5°	72.5	65.3	60.5	53.2	50.8
110°	65.3	60.5	55.6	50.8	48.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.0	55.6	50.8	45.9	43.5
115°	53.2	48.4	48.4	41.1	41.1
117.5°	48.4	43.5	43.5	38.7	38.7
120°	41.1	38.7	38.7	33.9	33.9
122.5°	36.3	33.9	33.9	31.4	31.4
125°	33.9	29.0	31.4	26.6	29.0
127.5°	29.0	26.6	26.6	24.2	26.6
130°	24.2	21.8	21.8	21.8	24.2
132.5°	21.8	19.3	19.3	19.3	21.8
135°	19.3	16.9	16.9	16.9	19.3
137.5°	16.9	14.5	12.1	14.5	16.9
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)