

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: P384137

Luminaire Tested: **22ID-50-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384137
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-50-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

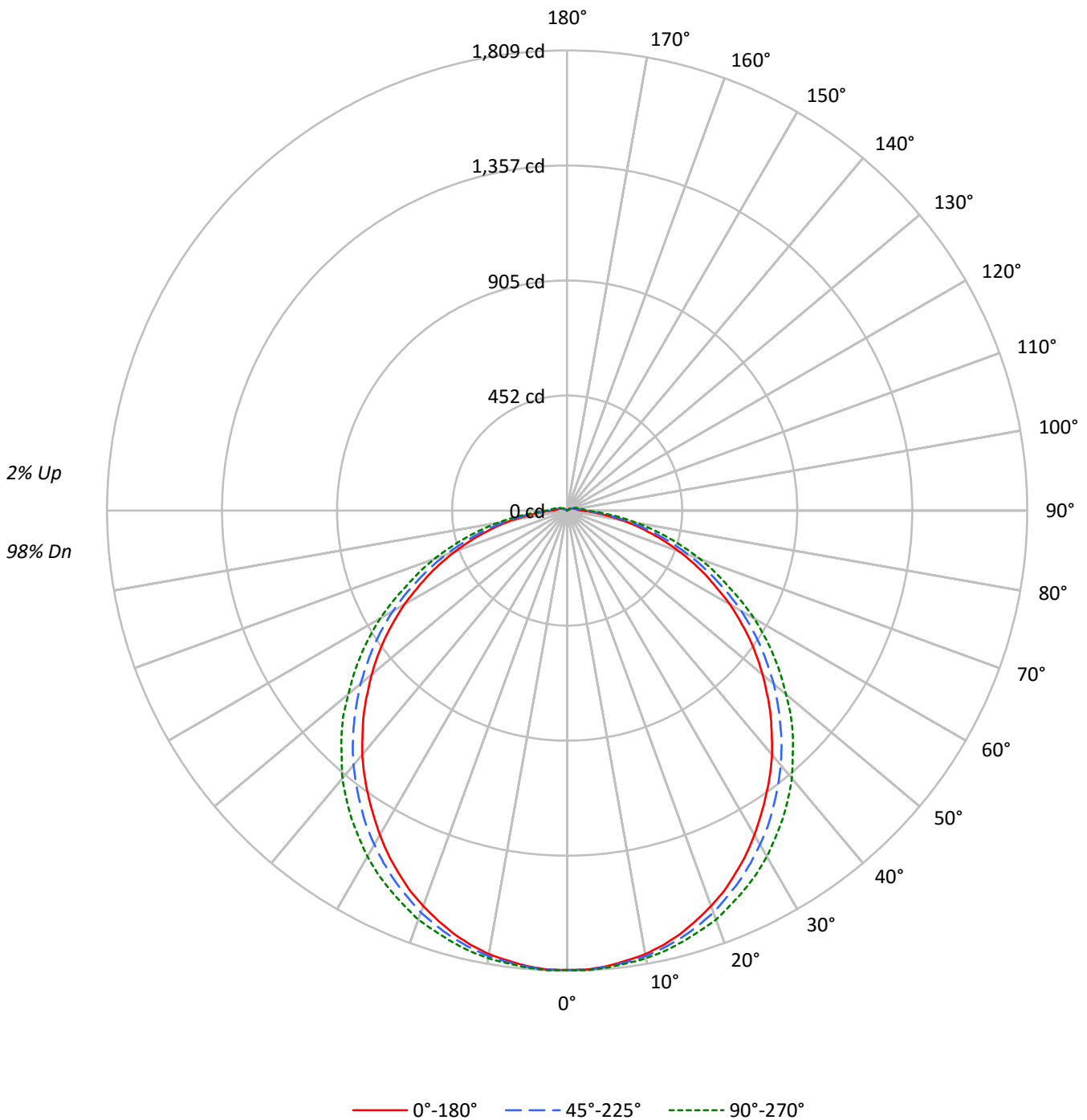
Lumens per Lamp: N/A
Luminaire Lumens: 5348.8 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 41.5
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: P384137
CATALOG NUMBER: 22ID-50-L850-CFD1

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°	4860	4860	4860
5°	4839	4839	4853
10°	4803	4811	4847
15°	4744	4767	4834
20°	4666	4714	4827
25°	4573	4639	4794
30°	4468	4555	4764
35°	4354	4466	4717
40°	4252	4375	4666
45°	4131	4259	4587
50°	4002	4148	4477
55°	3867	4013	4383
60°	3716	3867	4261
65°	3519	3649	4058
70°	3293	3434	3925
75°	3026	3143	3709
80°	2719	2803	3467
85°	2439	2502	3290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.2
10°-20°	490.3	9.2
20°-30°	740.2	13.8
30°-40°	886.9	16.6
40°-50°	917.0	17.1
50°-60°	830.4	15.5
60°-70°	642.6	12.0
70°-80°	394.7	7.4
80°-90°	156.8	2.9
90°-100°	57.2	1.1
100°-110°	35.2	0.7
110°-120°	18.1	0.3
120°-130°	7.7	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°	1401.6	26.2
0°-40°	2288.5	42.8
0°-60°	4036.0	75.5
0°-90°	5230.1	97.8
90°-120°	110.5	2.1
90°-150°	118.7	2.2
90°-180°	119.0	2.2
0°-180°	5348.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1798	1798	1801	1801	1803	171
15°	1722	1725	1738	1749	1754	485
25°	1570	1581	1605	1632	1646	723
35°	1364	1380	1416	1454	1478	854
45°	1131	1144	1185	1234	1256	872
55°	873	892	927	968	990	780
65°	602	616	645	678	694	596
75°	336	352	369	393	412	358
85°	117	125	136	149	157	116
90°	54	62	68	76	81	32
95°	41	46	52	57	62	33
105°	30	30	32	35	38	32
115°	19	16	16	19	22	19
125°	11	8	5	8	11	10
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



TEST NUMBER: P384137

CATALOG NUMBER: 22ID-50-L850-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1806.0	1806.0	1806.0	1806.0	1806.0
2.5°	1806.0	1803.3	1806.0	1806.0	1808.7
5°	1797.9	1797.9	1800.6	1800.6	1803.3
7.5°	1784.3	1784.3	1789.7	1792.4	1795.2
10°	1770.7	1770.7	1778.9	1781.6	1787.0
12.5°	1749.1	1751.8	1759.9	1768.0	1773.5
15°	1721.9	1724.6	1738.2	1749.1	1754.5
17.5°	1689.4	1694.8	1711.1	1727.4	1732.8
20°	1654.1	1662.3	1681.3	1700.2	1711.1
22.5°	1616.2	1621.6	1643.3	1667.7	1678.6
25°	1570.1	1580.9	1605.3	1632.5	1646.0
27.5°	1524.0	1534.8	1561.9	1594.5	1610.8
30°	1472.5	1483.3	1515.8	1551.1	1570.1
32.5°	1418.2	1431.8	1469.7	1505.0	1524.0
35°	1364.0	1380.3	1415.5	1453.5	1477.9
37.5°	1309.8	1323.3	1361.3	1402.0	1426.4
40°	1252.8	1266.4	1307.0	1347.7	1374.8
42.5°	1190.4	1206.7	1247.4	1290.8	1312.5
45°	1130.8	1144.3	1185.0	1233.8	1255.5
47.5°	1065.7	1084.7	1122.6	1168.7	1193.2
50°	1003.3	1019.6	1060.3	1103.7	1122.6
52.5°	938.3	954.5	992.5	1035.9	1057.6
55°	873.2	892.2	927.4	968.1	989.8
57.5°	805.4	824.4	859.6	894.9	919.3
60°	740.3	759.3	791.8	827.1	848.8
62.5°	667.1	683.4	718.6	756.6	772.8
65°	602.0	615.6	645.4	677.9	694.2
67.5°	534.2	550.5	577.6	607.4	626.4
70°	466.4	485.4	507.1	534.2	555.9
72.5°	401.3	417.6	436.6	463.7	482.7
75°	336.3	352.5	368.8	393.2	412.2
77.5°	279.3	287.4	303.7	325.4	344.4
80°	216.9	227.8	241.3	263.0	276.6
82.5°	162.7	173.5	184.4	200.7	214.2
85°	116.6	124.7	135.6	149.1	157.3
87.5°	78.6	86.8	94.9	105.8	113.9
90°	54.2	62.4	67.8	75.9	81.4
92.5°	46.1	51.5	56.9	62.4	67.8
95°	40.7	46.1	51.5	56.9	62.4
97.5°	38.0	40.7	46.1	51.5	54.2
100°	35.3	38.0	40.7	46.1	48.8
102.5°	32.5	32.5	38.0	40.7	43.4
105°	29.8	29.8	32.5	35.3	38.0
107.5°	27.1	27.1	29.8	29.8	35.3
110°	24.4	21.7	24.4	24.4	29.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.7	19.0	21.7	21.7	24.4
115°	19.0	16.3	16.3	19.0	21.7
117.5°	16.3	13.6	13.6	13.6	19.0
120°	16.3	13.6	10.8	10.8	16.3
122.5°	13.6	10.8	8.1	10.8	13.6
125°	10.8	8.1	5.4	8.1	10.8
127.5°	8.1	8.1	2.7	5.4	8.1
130°	8.1	5.4	2.7	5.4	5.4
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)