

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: P384136

Luminaire Tested: **22ID-50-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384136
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-L840-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

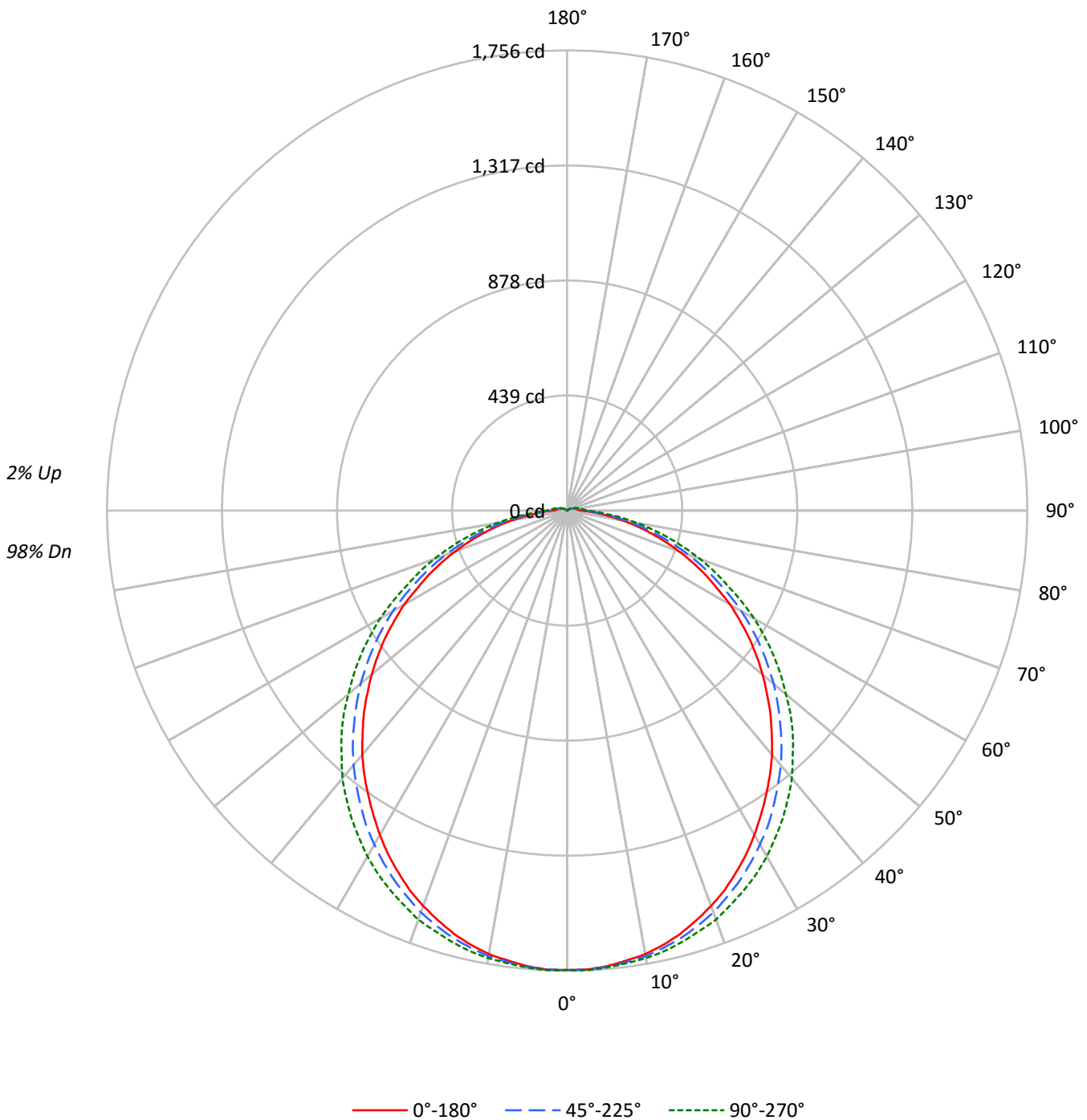
Lumens per Lamp: N/A
Luminaire Lumens: 5191.5 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

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



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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°	4717	4717	4717
5°	4697	4697	4711
10°	4662	4669	4705
15°	4605	4627	4692
20°	4529	4575	4685
25°	4439	4503	4653
30°	4337	4421	4624
35°	4226	4335	4579
40°	4127	4246	4529
45°	4010	4134	4452
50°	3884	4026	4346
55°	3753	3895	4254
60°	3607	3753	4135
65°	3415	3541	3939
70°	3196	3333	3810
75°	2937	3051	3600
80°	2640	2721	3366
85°	2368	2428	3194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	3.2
10°-20°	475.9	9.2
20°-30°	718.5	13.8
30°-40°	860.9	16.6
40°-50°	890.0	17.1
50°-60°	806.0	15.5
60°-70°	623.7	12.0
70°-80°	383.1	7.4
80°-90°	152.2	2.9
90°-100°	55.5	1.1
100°-110°	34.1	0.7
110°-120°	17.6	0.3
120°-130°	7.5	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°	1360.4	26.2
0°-40°	2221.2	42.8
0°-60°	3917.2	75.5
0°-90°	5076.3	97.8
90°-120°	107.2	2.1
90°-150°	115.2	2.2
90°-180°	115.0	2.2
0°-180°	5191.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1745	1745	1748	1748	1750	166
15°	1671	1674	1687	1698	1703	471
25°	1524	1534	1558	1584	1598	702
35°	1324	1340	1374	1411	1434	829
45°	1098	1111	1150	1198	1219	846
55°	848	866	900	940	961	757
65°	584	598	626	658	674	578
75°	326	342	358	382	400	348
85°	113	121	132	145	153	113
90°	53	60	66	74	79	31
95°	40	45	50	55	60	32
105°	29	29	32	34	37	31
115°	18	16	16	18	21	19
125°	10	8	5	8	10	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1752.9	1752.9	1752.9	1752.9	1752.9
2.5°	1752.9	1750.3	1752.9	1752.9	1755.5
5°	1745.0	1745.0	1747.6	1747.6	1750.3
7.5°	1731.8	1731.8	1737.1	1739.7	1742.4
10°	1718.7	1718.7	1726.6	1729.2	1734.5
12.5°	1697.6	1700.2	1708.1	1716.0	1721.3
15°	1671.3	1673.9	1687.1	1697.6	1702.9
17.5°	1639.7	1645.0	1660.8	1676.6	1681.8
20°	1605.5	1613.4	1631.8	1650.2	1660.8
22.5°	1568.7	1573.9	1595.0	1618.7	1629.2
25°	1523.9	1534.4	1558.1	1584.4	1597.6
27.5°	1479.2	1489.7	1516.0	1547.6	1563.4
30°	1429.2	1439.7	1471.3	1505.5	1523.9
32.5°	1376.5	1389.7	1426.5	1460.7	1479.2
35°	1323.9	1339.7	1373.9	1410.7	1434.4
37.5°	1271.2	1284.4	1321.2	1360.7	1384.4
40°	1216.0	1229.1	1268.6	1308.1	1334.4
42.5°	1155.4	1171.2	1210.7	1252.8	1273.9
45°	1097.5	1110.7	1150.2	1197.5	1218.6
47.5°	1034.4	1052.8	1089.6	1134.4	1158.1
50°	973.8	989.6	1029.1	1071.2	1089.6
52.5°	910.7	926.5	963.3	1005.4	1026.5
55°	847.5	865.9	900.1	939.6	960.7
57.5°	781.7	800.1	834.3	868.5	892.2
60°	718.5	737.0	768.5	802.7	823.8
62.5°	647.5	663.3	697.5	734.3	750.1
65°	584.3	597.5	626.4	658.0	673.8
67.5°	518.5	534.3	560.6	589.6	608.0
70°	452.7	471.1	492.2	518.5	539.6
72.5°	389.5	405.3	423.7	450.1	468.5
75°	326.4	342.2	357.9	381.6	400.1
77.5°	271.1	279.0	294.8	315.8	334.3
80°	210.6	221.1	234.2	255.3	268.5
82.5°	157.9	168.4	179.0	194.8	207.9
85°	113.2	121.1	131.6	144.8	152.7
87.5°	76.3	84.2	92.1	102.6	110.5
90°	52.6	60.5	65.8	73.7	79.0
92.5°	44.7	50.0	55.3	60.5	65.8
95°	39.5	44.7	50.0	55.3	60.5
97.5°	36.8	39.5	44.7	50.0	52.6
100°	34.2	36.8	39.5	44.7	47.4
102.5°	31.6	31.6	36.8	39.5	42.1
105°	29.0	29.0	31.6	34.2	36.8
107.5°	26.3	26.3	29.0	29.0	34.2
110°	23.7	21.1	23.7	23.7	29.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.1	18.4	21.1	21.1	23.7
115°	18.4	15.8	15.8	18.4	21.1
117.5°	15.8	13.2	13.2	13.2	18.4
120°	15.8	13.2	10.5	10.5	15.8
122.5°	13.2	10.5	7.9	10.5	13.2
125°	10.5	7.9	5.3	7.9	10.5
127.5°	7.9	7.9	2.6	5.3	7.9
130°	7.9	5.3	2.6	5.3	5.3
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)