

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: P384193

Luminaire Tested: **24ID-55-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384193
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: 24ID-55-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

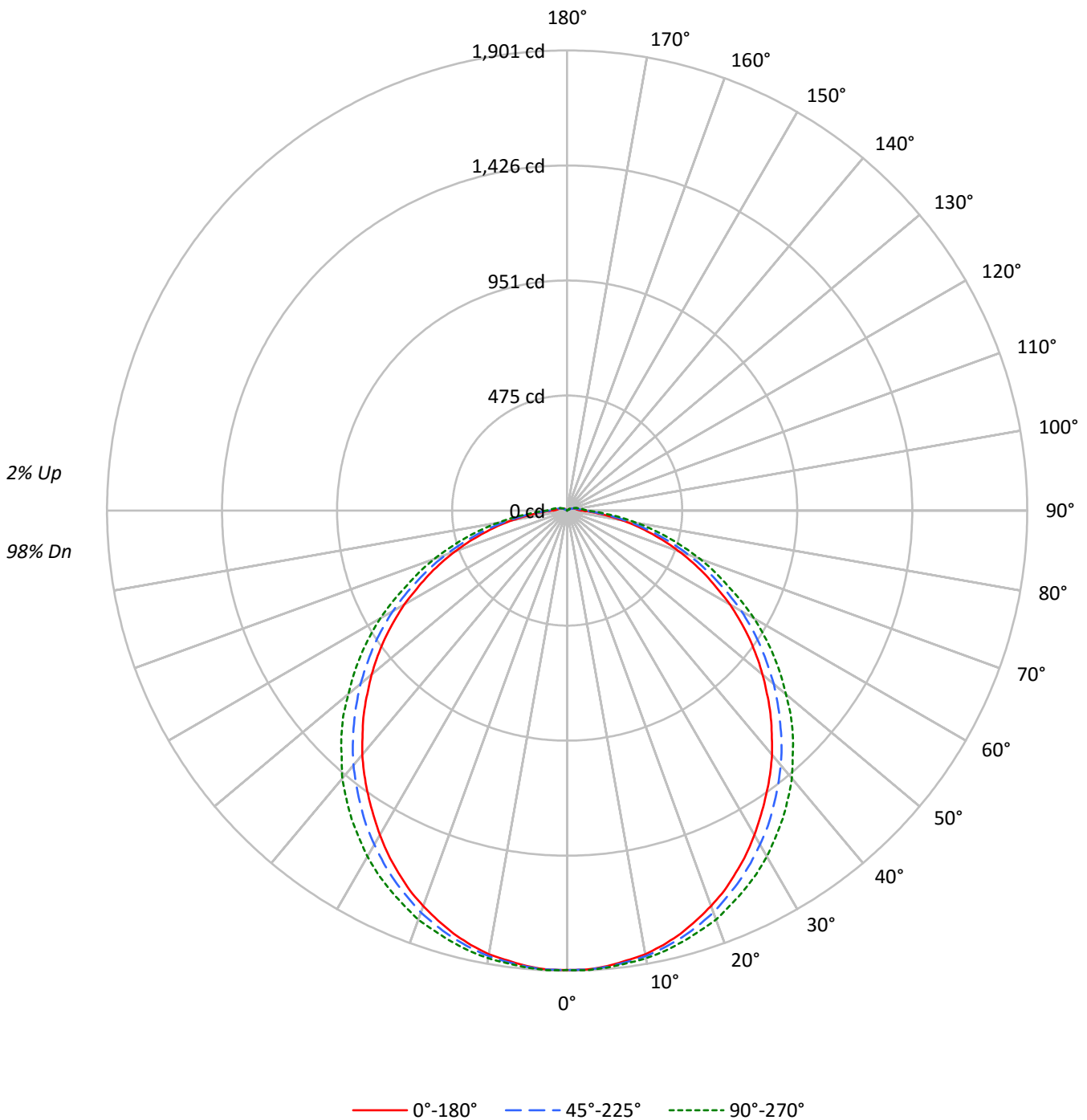
Lumens per Lamp: N/A
Luminaire Lumens: 5620.9 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 50.2
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°	2554	2554	2554
5°	2547	2546	2550
10°	2533	2534	2547
15°	2507	2515	2540
20°	2470	2490	2536
25°	2426	2454	2519
30°	2376	2413	2503
35°	2321	2370	2479
40°	2273	2326	2452
45°	2215	2269	2410
50°	2154	2216	2353
55°	2090	2151	2303
60°	2021	2080	2239
65°	1928	1972	2132
70°	1824	1869	2062
75°	1705	1730	1949
80°	1580	1571	1822
85°	1528	1462	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.2
10°-20°	515.3	9.2
20°-30°	777.9	13.8
30°-40°	932.1	16.6
40°-50°	963.7	17.1
50°-60°	872.7	15.5
60°-70°	675.3	12.0
70°-80°	414.8	7.4
80°-90°	164.8	2.9
90°-100°	60.1	1.1
100°-110°	36.9	0.7
110°-120°	19.0	0.3
120°-130°	8.1	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°	1472.9	26.2
0°-40°	2405.0	42.8
0°-60°	4241.3	75.5
0°-90°	5496.3	97.8
90°-120°	116.0	2.1
90°-150°	124.6	2.2
90°-180°	125.0	2.2
0°-180°	5620.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1889	1889	1892	1892	1895	179
15°	1810	1812	1827	1838	1844	510
25°	1650	1661	1687	1716	1730	760
35°	1433	1450	1488	1527	1553	897
45°	1188	1203	1245	1297	1319	916
55°	918	938	975	1017	1040	820
65°	633	647	678	712	730	626
75°	353	370	388	413	433	377
85°	122	131	142	157	165	122
90°	57	66	71	80	86	34
95°	43	48	54	60	66	34
105°	31	31	34	37	40	33
115°	20	17	17	20	23	20
125°	11	8	6	8	11	11
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°	1897.9	1897.9	1897.9	1897.9	1897.9
2.5°	1897.9	1895.1	1897.9	1897.9	1900.8
5°	1889.4	1889.4	1892.2	1892.2	1895.1
7.5°	1875.1	1875.1	1880.8	1883.7	1886.5
10°	1860.9	1860.9	1869.4	1872.3	1878.0
12.5°	1838.1	1840.9	1849.5	1858.0	1863.7
15°	1809.6	1812.4	1826.7	1838.1	1843.8
17.5°	1775.4	1781.1	1798.2	1815.3	1821.0
20°	1738.3	1746.9	1766.8	1786.8	1798.2
22.5°	1698.4	1704.1	1726.9	1752.6	1764.0
25°	1650.0	1661.4	1687.0	1715.5	1729.8
27.5°	1601.5	1612.9	1641.4	1675.6	1692.7
30°	1547.4	1558.8	1593.0	1630.0	1650.0
32.5°	1490.4	1504.6	1544.5	1581.6	1601.5
35°	1433.4	1450.5	1487.5	1527.4	1553.1
37.5°	1376.4	1390.7	1430.6	1473.3	1498.9
40°	1316.6	1330.8	1373.6	1416.3	1444.8
42.5°	1251.0	1268.1	1310.9	1356.5	1379.3
45°	1188.3	1202.6	1245.3	1296.6	1319.4
47.5°	1119.9	1139.9	1179.8	1228.2	1253.9
50°	1054.4	1071.5	1114.2	1159.8	1179.8
52.5°	986.0	1003.1	1043.0	1088.6	1111.4
55°	917.6	937.6	974.6	1017.3	1040.1
57.5°	846.4	866.3	903.4	940.4	966.1
60°	778.0	797.9	832.1	869.2	892.0
62.5°	701.0	718.1	755.2	795.1	812.2
65°	632.6	646.9	678.2	712.4	729.5
67.5°	561.4	578.5	607.0	638.3	658.3
70°	490.2	510.1	532.9	561.4	584.2
72.5°	421.8	438.9	458.8	487.3	507.2
75°	353.4	370.5	387.6	413.2	433.2
77.5°	293.5	302.1	319.2	342.0	361.9
80°	228.0	239.4	253.6	276.4	290.7
82.5°	171.0	182.4	193.8	210.9	225.1
85°	122.5	131.1	142.5	156.7	165.3
87.5°	82.6	91.2	99.7	111.1	119.7
90°	57.0	65.5	71.2	79.8	85.5
92.5°	48.4	54.1	59.8	65.5	71.2
95°	42.7	48.4	54.1	59.8	65.5
97.5°	39.9	42.7	48.4	54.1	57.0
100°	37.0	39.9	42.7	48.4	51.3
102.5°	34.2	34.2	39.9	42.7	45.6
105°	31.3	31.3	34.2	37.0	39.9
107.5°	28.5	28.5	31.3	31.3	37.0
110°	25.6	22.8	25.6	25.6	31.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.8	19.9	22.8	22.8	25.6
115°	19.9	17.1	17.1	19.9	22.8
117.5°	17.1	14.2	14.2	14.2	19.9
120°	17.1	14.2	11.4	11.4	17.1
122.5°	14.2	11.4	8.5	11.4	14.2
125°	11.4	8.5	5.7	8.5	11.4
127.5°	8.5	8.5	2.8	5.7	8.5
130°	8.5	5.7	2.8	5.7	5.7
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)