

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: P384141

Luminaire Tested: **22ID-55-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384141
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-55-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

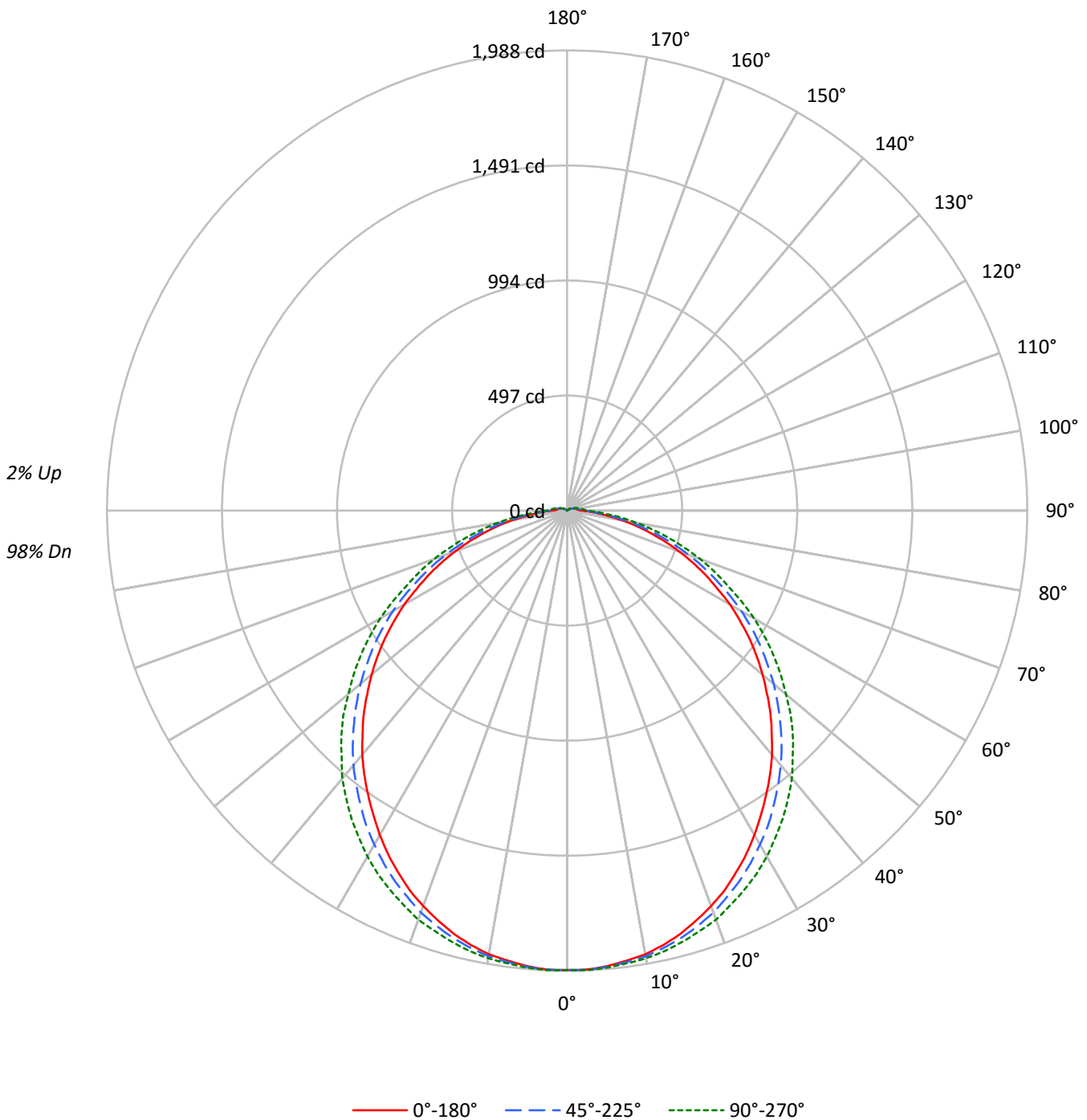
Lumens per Lamp: N/A
Luminaire Lumens: 5878.4 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 46.3
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°	5341	5341	5341
5°	5318	5318	5334
10°	5279	5287	5327
15°	5214	5239	5312
20°	5128	5180	5305
25°	5026	5098	5269
30°	4910	5006	5236
35°	4785	4908	5184
40°	4673	4809	5129
45°	4540	4681	5041
50°	4398	4558	4921
55°	4249	4411	4817
60°	4084	4250	4682
65°	3867	4010	4459
70°	3619	3774	4313
75°	3325	3455	4076
80°	2989	3081	3811
85°	2680	2749	3617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	3.2
10°-20°	538.9	9.2
20°-30°	813.5	13.8
30°-40°	974.8	16.6
40°-50°	1007.8	17.1
50°-60°	912.6	15.5
60°-70°	706.2	12.0
70°-80°	433.8	7.4
80°-90°	172.4	2.9
90°-100°	62.9	1.1
100°-110°	38.6	0.7
110°-120°	19.9	0.3
120°-130°	8.5	0.1
130°-140°	0.6	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°	1540.4	26.2
0°-40°	2515.1	42.8
0°-60°	4435.6	75.5
0°-90°	5748.0	97.8
90°-120°	121.4	2.1
90°-150°	130.4	2.2
90°-180°	130.0	2.2
0°-180°	5878.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1976	1976	1979	1979	1982	188
15°	1892	1895	1910	1922	1928	533
25°	1726	1738	1764	1794	1809	795
35°	1499	1517	1556	1597	1624	939
45°	1243	1258	1302	1356	1380	958
55°	960	980	1019	1064	1088	857
65°	662	676	709	745	763	654
75°	370	387	405	432	453	394
85°	128	137	149	164	173	128
90°	60	68	74	83	89	35
95°	45	51	57	63	68	36
105°	33	33	36	39	42	35
115°	21	18	18	21	24	21
125°	12	9	6	9	12	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°	1984.8	1984.8	1984.8	1984.8	1984.8
2.5°	1984.8	1981.8	1984.8	1984.8	1987.8
5°	1975.9	1975.9	1978.9	1978.9	1981.8
7.5°	1961.0	1961.0	1966.9	1969.9	1972.9
10°	1946.1	1946.1	1955.0	1958.0	1964.0
12.5°	1922.2	1925.2	1934.2	1943.1	1949.1
15°	1892.4	1895.4	1910.3	1922.2	1928.2
17.5°	1856.7	1862.6	1880.5	1898.4	1904.4
20°	1817.9	1826.9	1847.7	1868.6	1880.5
22.5°	1776.2	1782.2	1806.0	1832.8	1844.7
25°	1725.5	1737.5	1764.3	1794.1	1809.0
27.5°	1674.9	1686.8	1716.6	1752.4	1770.2
30°	1618.3	1630.2	1665.9	1704.7	1725.5
32.5°	1558.6	1573.5	1615.3	1654.0	1674.9
35°	1499.0	1516.9	1555.7	1597.4	1624.2
37.5°	1439.4	1454.3	1496.1	1540.8	1567.6
40°	1376.9	1391.8	1436.5	1481.2	1511.0
42.5°	1308.3	1326.2	1370.9	1418.6	1442.4
45°	1242.7	1257.6	1302.4	1356.0	1379.8
47.5°	1171.2	1192.1	1233.8	1284.5	1311.3
50°	1102.7	1120.6	1165.3	1212.9	1233.8
52.5°	1031.2	1049.0	1090.8	1138.4	1162.3
55°	959.6	980.5	1019.2	1063.9	1087.8
57.5°	885.1	906.0	944.7	983.5	1010.3
60°	813.6	834.5	870.2	909.0	932.8
62.5°	733.1	751.0	789.8	831.5	849.4
65°	661.6	676.5	709.3	745.1	762.9
67.5°	587.1	605.0	634.8	667.6	688.4
70°	512.6	533.5	557.3	587.1	610.9
72.5°	441.1	459.0	479.8	509.6	530.5
75°	369.5	387.4	405.3	432.1	453.0
77.5°	307.0	315.9	333.8	357.6	378.5
80°	238.4	250.3	265.2	289.1	304.0
82.5°	178.8	190.7	202.7	220.5	235.4
85°	128.1	137.1	149.0	163.9	172.9
87.5°	86.4	95.4	104.3	116.2	125.2
90°	59.6	68.5	74.5	83.4	89.4
92.5°	50.7	56.6	62.6	68.5	74.5
95°	44.7	50.7	56.6	62.6	68.5
97.5°	41.7	44.7	50.7	56.6	59.6
100°	38.7	41.7	44.7	50.7	53.6
102.5°	35.8	35.8	41.7	44.7	47.7
105°	32.8	32.8	35.8	38.7	41.7
107.5°	29.8	29.8	32.8	32.8	38.7
110°	26.8	23.8	26.8	26.8	32.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.8	20.9	23.8	23.8	26.8
115°	20.9	17.9	17.9	20.9	23.8
117.5°	17.9	14.9	14.9	14.9	20.9
120°	17.9	14.9	11.9	11.9	17.9
122.5°	14.9	11.9	8.9	11.9	14.9
125°	11.9	8.9	6.0	8.9	11.9
127.5°	8.9	8.9	3.0	6.0	8.9
130°	8.9	6.0	3.0	6.0	6.0
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)