

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: P520776

Luminaire Tested: **8WSLA-75-L835-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-75-L835-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

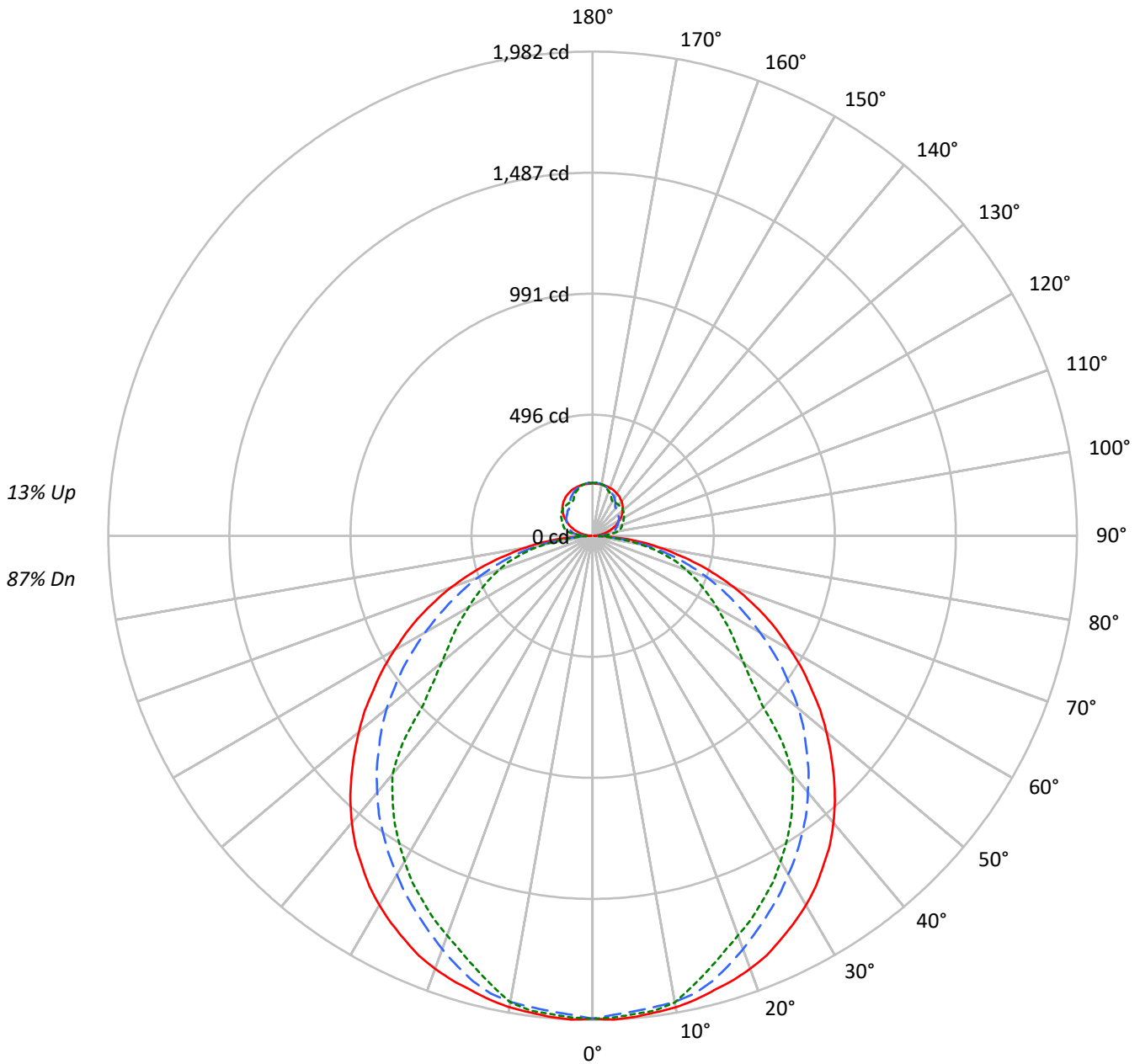
Lumens per Lamp: N/A
Luminaire Lumens: 6152.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5320	5320	5320
5°	5340	5278	5309
10°	5355	5293	5300
15°	5365	5261	5119
20°	5400	5156	4985
25°	5413	5059	4890
30°	5427	4976	4781
35°	5410	4906	4653
40°	5386	4816	4476
45°	5315	4709	3734
50°	5227	4608	3370
55°	5124	4457	3243
60°	5036	4256	3153
65°	4962	4075	3151
70°	4834	3917	3200
75°	4613	3726	3223
80°	4319	3350	2997
85°	3952	2371	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	3.0
10°-20°	532.0	8.6
20°-30°	795.0	12.9
30°-40°	949.0	15.4
40°-50°	949.1	15.4
50°-60°	821.4	13.4
60°-70°	630.4	10.2
70°-80°	386.3	6.3
80°-90°	108.8	1.8
90°-100°	61.5	1.0
100°-110°	97.6	1.6
110°-120°	114.1	1.9
120°-130°	123.1	2.0
130°-140°	121.3	2.0
140°-150°	107.3	1.7
150°-160°	88.3	1.4
160°-170°	59.1	1.0
170°-180°	20.6	0.3
0°-30°	1514.2	24.6
0°-40°	2463.1	40.0
0°-60°	4233.5	68.8
0°-90°	5359.0	87.1
90°-120°	273.1	4.4
90°-150°	624.9	10.2
90°-180°	793.0	12.9
0°-180°	6152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1977	1977	1977	1977	1977	
5°	1977	1971	1954	1968	1965	188
15°	1926	1923	1889	1854	1837	545
25°	1823	1800	1704	1658	1647	841
35°	1647	1604	1493	1439	1416	1031
45°	1396	1357	1237	1126	981	1077
55°	1092	1067	950	759	691	979
65°	779	751	640	515	495	770
75°	444	421	358	310	310	468
85°	128	105	77	65	65	134
90°	6	20	31	40	43	9
95°	23	48	65	68	68	22
105°	65	68	97	114	120	69
115°	108	91	114	131	139	106
125°	145	117	131	151	156	129
135°	174	156	145	159	168	134
145°	193	185	162	159	165	121
155°	205	202	191	182	179	94
165°	210	213	208	208	208	60
175°	213	216	216	219	219	20
180°	216	216	216	216	216	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1976.8	1976.8	1976.8	1976.8	1976.8
2.5°	1982.5	1976.8	1962.6	1976.8	1973.9
5°	1976.8	1971.1	1954.0	1968.2	1965.4
7.5°	1968.2	1962.6	1945.5	1962.6	1959.7
10°	1959.7	1954.0	1937.0	1948.3	1939.8
12.5°	1945.5	1939.8	1919.9	1905.7	1888.6
15°	1925.6	1922.7	1888.6	1854.5	1837.4
17.5°	1908.5	1900.0	1845.9	1806.1	1786.2
20°	1885.8	1871.5	1800.4	1754.9	1740.7
22.5°	1860.2	1837.4	1752.1	1709.4	1698.0
25°	1823.2	1800.4	1703.7	1658.2	1646.8
27.5°	1786.2	1757.8	1655.4	1609.9	1598.5
30°	1746.4	1706.6	1601.3	1558.7	1538.8
32.5°	1700.9	1661.1	1550.1	1501.8	1479.0
35°	1646.8	1604.2	1493.3	1439.2	1416.5
37.5°	1595.6	1550.1	1436.4	1376.6	1345.3
40°	1533.1	1487.6	1370.9	1305.5	1274.2
42.5°	1467.7	1425.0	1308.4	1228.7	1151.9
45°	1396.5	1356.7	1237.3	1126.3	981.3
47.5°	1322.6	1288.5	1171.8	1021.1	881.7
50°	1248.6	1214.5	1100.7	921.6	804.9
52.5°	1174.7	1146.2	1021.1	839.1	742.4
55°	1092.2	1066.6	950.0	759.4	691.2
57.5°	1018.3	992.7	867.5	694.0	637.1
60°	935.8	913.0	790.7	628.6	585.9
62.5°	859.0	833.4	713.9	571.7	540.4
65°	779.3	750.9	640.0	514.8	494.9
67.5°	696.9	668.4	568.9	463.6	452.2
70°	614.4	591.6	497.8	412.4	406.7
72.5°	529.0	503.4	426.6	364.1	364.1
75°	443.7	421.0	358.4	310.0	310.0
77.5°	355.5	344.2	287.3	253.1	256.0
80°	278.7	264.5	216.2	193.4	193.4
82.5°	204.8	187.7	145.1	128.0	133.7
85°	128.0	105.2	76.8	65.4	65.4
87.5°	39.8	31.3	22.8	25.6	25.6
90°	5.7	19.9	31.3	39.8	42.7
92.5°	14.2	37.0	45.5	54.0	56.9
95°	22.8	48.4	65.4	68.3	68.3
97.5°	31.3	54.0	79.6	91.0	91.0
100°	42.7	56.9	85.3	102.4	105.2
102.5°	54.0	62.6	91.0	108.1	113.8
105°	65.4	68.3	96.7	113.8	119.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	96.7	85.3	108.1	128.0	133.7
115°	108.1	91.0	113.8	130.8	139.4
117.5°	116.6	99.6	119.5	136.5	142.2
120°	125.1	105.2	122.3	142.2	147.9
122.5°	136.5	110.9	128.0	145.1	153.6
125°	145.1	116.6	130.8	150.7	156.4
127.5°	153.6	128.0	133.7	153.6	159.3
130°	159.3	139.4	136.5	156.4	162.1
132.5°	167.8	147.9	139.4	159.3	165.0
135°	173.5	156.4	145.1	159.3	167.8
137.5°	179.2	165.0	145.1	159.3	165.0
140°	184.9	173.5	147.9	159.3	165.0
142.5°	187.7	179.2	150.7	159.3	165.0
145°	193.4	184.9	162.1	159.3	165.0
147.5°	196.3	190.6	170.7	159.3	165.0
150°	199.1	196.3	179.2	162.1	162.1
152.5°	201.9	199.1	184.9	173.5	167.8
155°	204.8	201.9	190.6	182.0	179.2
157.5°	207.6	207.6	196.3	190.6	187.7
160°	207.6	210.5	201.9	196.3	193.4
162.5°	210.5	213.3	204.8	201.9	199.1
165°	210.5	213.3	207.6	207.6	207.6
167.5°	213.3	216.2	213.3	210.5	210.5
170°	213.3	216.2	213.3	213.3	213.3
172.5°	213.3	216.2	216.2	216.2	216.2
175°	213.3	216.2	216.2	219.0	219.0
177.5°	213.3	216.2	216.2	216.2	216.2
180°	216.2	216.2	216.2	216.2	216.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	76.8	74.0	99.6	119.5	125.1
110°	85.3	79.6	105.2	122.3	128.0



(END OF REPORT)