

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: P520720

Luminaire Tested: **8WSLA-175-L950-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-175-L950-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

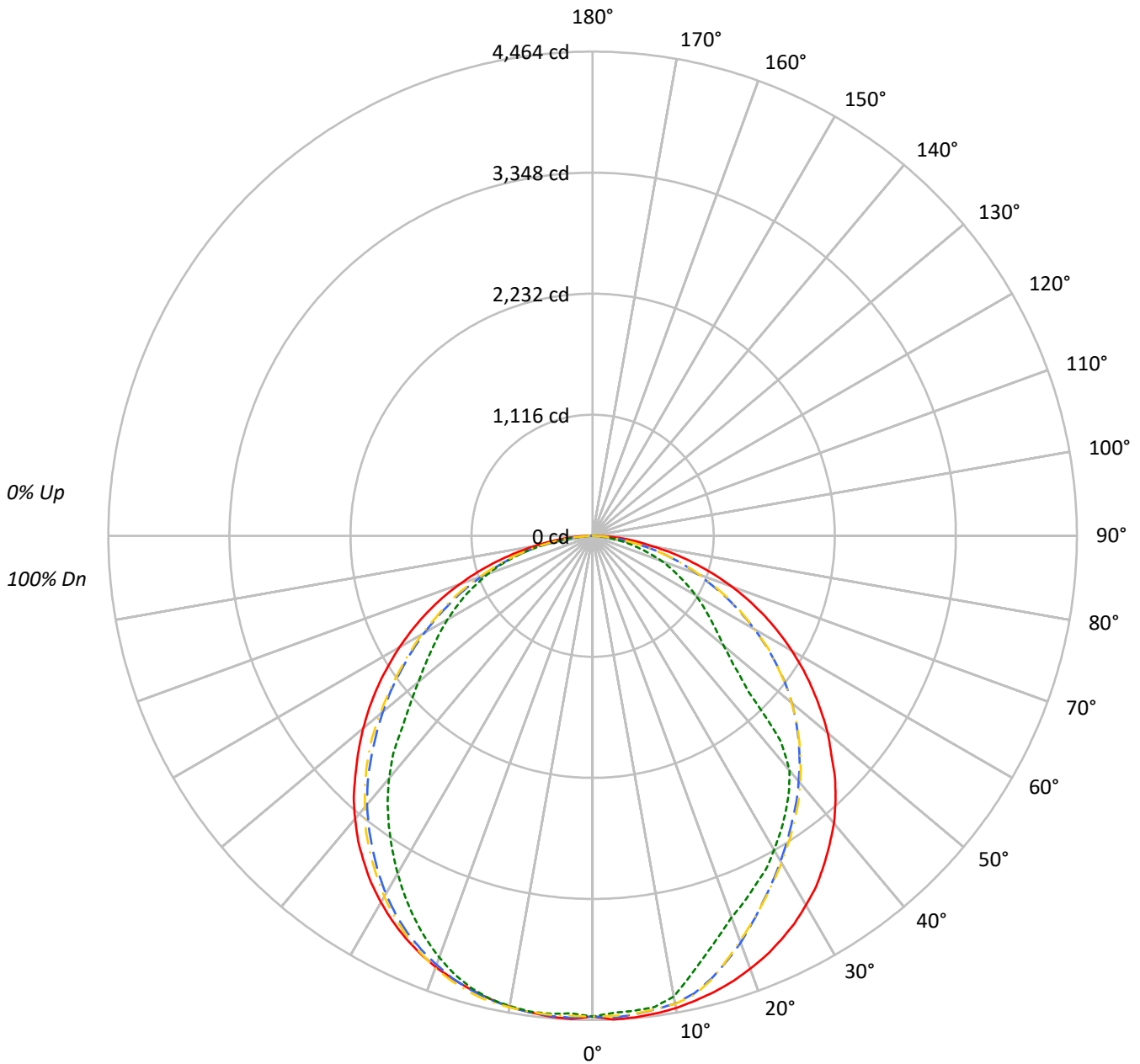
Lumens per Lamp: N/A
Luminaire Lumens: 11887.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 119
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11924	11924	11924	11924
5°	12040	11873	12021	11950
10°	12082	11783	12049	12030
15°	12120	11159	12066	12027
20°	12165	10722	12117	11845
25°	12204	10545	12140	11547
30°	12217	10393	12129	11168
35°	12198	10191	12073	10753
40°	12159	9921	11966	10255
45°	12023	7708	11752	9409
50°	11843	6598	11554	8778
55°	11632	6179	11331	8442
60°	11412	5898	11067	8303
65°	11140	5585	10762	8204
70°	10699	5312	10250	8080
75°	9960	4671	9491	7687
80°	8841	3905	8289	6521
85°	8367	2788	7339	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	3.5
10°-20°	1200.9	10.1
20°-30°	1794.4	15.1
30°-40°	2136.0	18.0
40°-50°	2135.1	18.0
50°-60°	1837.2	15.5
60°-70°	1382.8	11.6
70°-80°	788.0	6.6
80°-90°	191.8	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	3416.3	28.7
0°-40°	5552.3	46.7
0°-60°	9524.5	80.1
0°-90°	11887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11887.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4431	4431	4431	4431	4431	
5°	4457	4395	4450	4424	4457	424
15°	4350	4006	4331	4317	4350	1229
25°	4110	3552	4089	3889	4110	1895
35°	3713	3102	3675	3273	3713	2323
45°	3159	2025	3088	2472	3159	2433
55°	2479	1317	2415	1800	2479	2217
65°	1750	877	1690	1288	1750	1728
75°	958	449	913	739	958	1014
85°	271	90	238	121	271	295
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1
2.5°	4464.4	4423.9	4447.7	4440.6	4402.6	4416.8	4431.1	4416.8	4459.6	4421.6	4447.7
5°	4457.2	4414.4	4428.7	4414.4	4395.4	4400.2	4421.6	4407.3	4450.1	4409.7	4443.0
7.5°	4443.0	4390.7	4404.9	4397.8	4381.2	4383.5	4404.9	4393.0	4431.1	4393.0	4431.1
10°	4421.6	4366.9	4378.8	4347.9	4312.2	4338.4	4381.2	4369.3	4409.7	4366.9	4409.7
12.5°	4388.3	4333.6	4321.7	4219.5	4155.3	4205.2	4336.0	4336.0	4374.0	4333.6	4378.8
15°	4350.3	4290.8	4226.6	4072.1	4005.6	4055.5	4236.2	4298.0	4331.2	4290.8	4336.0
17.5°	4305.1	4236.2	4112.5	3931.9	3870.1	3920.0	4105.4	4240.9	4283.7	4240.9	4281.3
20°	4248.0	4167.2	3991.3	3784.5	3744.1	3789.2	3974.7	4172.0	4231.4	4179.1	4207.6
22.5°	4186.2	4088.8	3855.8	3670.4	3651.4	3679.9	3848.7	4086.4	4164.8	4110.2	4129.2
25°	4110.2	3996.1	3720.3	3565.8	3551.5	3568.2	3725.1	3986.5	4088.8	4031.7	4038.8
27.5°	4029.3	3905.7	3591.9	3477.8	3463.6	3470.7	3601.4	3874.8	4000.8	3943.8	3931.9
30°	3931.9	3798.7	3463.6	3359.0	3344.7	3370.9	3482.6	3760.7	3903.3	3846.3	3810.6
32.5°	3834.4	3682.3	3337.6	3256.7	3228.2	3252.0	3359.0	3641.9	3796.4	3736.9	3677.5
35°	3713.2	3558.7	3206.8	3126.0	3102.2	3128.4	3235.4	3518.2	3675.1	3615.7	3534.9
37.5°	3587.2	3427.9	3088.0	3014.3	2971.5	3002.4	3109.4	3389.9	3549.1	3487.3	3387.5
40°	3461.2	3290.0	2954.8	2878.8	2824.1	2869.3	2978.6	3254.4	3406.5	3349.5	3235.4
42.5°	3313.8	3152.2	2824.1	2717.1	2562.6	2707.6	2838.4	3118.9	3259.1	3204.5	3066.6
45°	3159.3	3004.8	2686.2	2427.1	2025.4	2450.9	2695.7	2976.2	3088.0	3035.7	2885.9
47.5°	2983.4	2852.6	2546.0	2151.4	1761.5	2175.1	2550.7	2840.7	2926.3	2869.3	2702.9
50°	2828.9	2700.5	2398.6	1918.4	1576.1	1944.5	2396.2	2688.6	2759.9	2707.6	2522.2
52.5°	2652.9	2541.2	2239.3	1711.6	1438.2	1737.7	2234.6	2531.7	2588.8	2527.0	2341.5
55°	2479.4	2379.6	2070.5	1528.5	1317.0	1552.3	2065.8	2370.1	2415.2	2343.9	2151.4
57.5°	2303.5	2213.2	1897.0	1364.5	1205.2	1390.7	1908.9	2203.7	2234.6	2144.2	1968.3
60°	2120.5	2044.4	1721.1	1219.5	1095.9	1240.9	1716.3	2037.3	2056.3	1958.8	1790.0
62.5°	1937.4	1868.5	1545.2	1086.4	984.2	1100.6	1557.1	1861.3	1873.2	1780.5	1607.0
65°	1749.6	1685.4	1374.0	946.1	877.2	969.9	1385.9	1678.3	1690.2	1585.6	1428.7
67.5°	1554.7	1502.4	1191.0	839.1	775.0	846.3	1214.7	1492.9	1500.0	1397.8	1255.2
70°	1359.8	1314.6	1029.3	722.7	675.1	725.0	1046.0	1288.4	1302.7	1193.3	1079.2
72.5°	1160.1	1124.4	872.4	601.4	558.6	601.4	881.9	1100.6	1110.1	1019.8	908.1
75°	958.0	931.9	713.2	482.6	449.3	480.2	717.9	912.8	912.8	827.3	739.3
77.5°	763.1	744.1	546.8	370.8	347.1	366.1	549.1	722.7	717.9	651.3	582.4
80°	570.5	556.3	392.2	268.6	252.0	261.5	392.2	534.9	534.9	487.3	404.1
82.5°	408.9	392.2	259.1	175.9	166.4	171.2	254.4	373.2	380.4	344.7	273.4
85°	271.0	233.0	140.3	97.5	90.3	92.7	133.1	216.3	237.7	199.7	142.6
87.5°	118.9	78.4	35.7	14.3	7.1	9.5	28.5	68.9	90.3	59.4	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1
2.5°	4445.3	4407.3	4421.6	4431.1	4421.6	4464.4
5°	4440.6	4423.9	4421.6	4433.5	4414.4	4457.2
7.5°	4433.5	4423.9	4421.6	4426.3	4402.6	4443.0
10°	4416.8	4402.6	4407.3	4414.4	4383.5	4421.6
12.5°	4385.9	4371.7	4374.0	4397.8	4355.0	4388.3
15°	4333.6	4317.0	4333.6	4359.8	4321.7	4350.3
17.5°	4264.7	4238.5	4267.1	4307.5	4278.9	4305.1
20°	4176.7	4136.3	4167.2	4240.9	4214.8	4248.0
22.5°	4069.7	4019.8	4050.7	4157.7	4150.6	4186.2
25°	3948.5	3889.1	3931.9	4062.6	4076.9	4110.2
27.5°	3813.0	3746.5	3803.5	3958.0	3991.3	4029.3
30°	3665.6	3594.3	3660.9	3841.5	3891.5	3931.9
32.5°	3513.5	3435.0	3511.1	3710.8	3782.1	3834.4
35°	3354.2	3273.4	3359.0	3575.3	3660.9	3713.2
37.5°	3183.1	3104.6	3197.3	3432.7	3534.9	3587.2
40°	3007.1	2919.2	3023.8	3263.9	3399.4	3461.2
42.5°	2826.5	2717.1	2845.5	3104.6	3252.0	3313.8
45°	2624.4	2472.3	2645.8	2935.8	3090.3	3159.3
47.5°	2422.4	2270.2	2446.1	2755.2	2921.6	2983.4
50°	2227.4	2096.7	2236.9	2557.9	2750.4	2828.9
52.5°	2049.1	1942.2	2061.0	2365.3	2574.5	2652.9
55°	1882.7	1799.5	1897.0	2175.1	2389.1	2479.4
57.5°	1725.8	1673.5	1740.1	1994.5	2217.9	2303.5
60°	1578.5	1542.8	1590.3	1816.2	2015.9	2120.5
62.5°	1433.4	1414.4	1450.1	1628.4	1828.1	1937.4
65°	1293.2	1288.4	1307.5	1464.3	1630.8	1749.6
67.5°	1152.9	1150.6	1162.4	1290.8	1438.2	1554.7
70°	1012.7	1026.9	1019.8	1103.0	1245.6	1359.8
72.5°	870.1	891.4	879.6	931.9	1069.7	1160.1
75°	710.8	739.3	715.5	775.0	860.5	958.0
77.5°	546.8	577.7	549.1	601.4	694.1	763.1
80°	392.2	420.8	397.0	437.4	518.2	570.5
82.5°	247.2	268.6	249.6	290.0	370.8	408.9
85°	109.4	121.2	126.0	156.9	228.2	271.0
87.5°	4.8	2.4	4.8	30.9	80.8	118.9
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)