

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: P520717

Luminaire Tested: **8WSLA-175-L940-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520717
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-L940-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

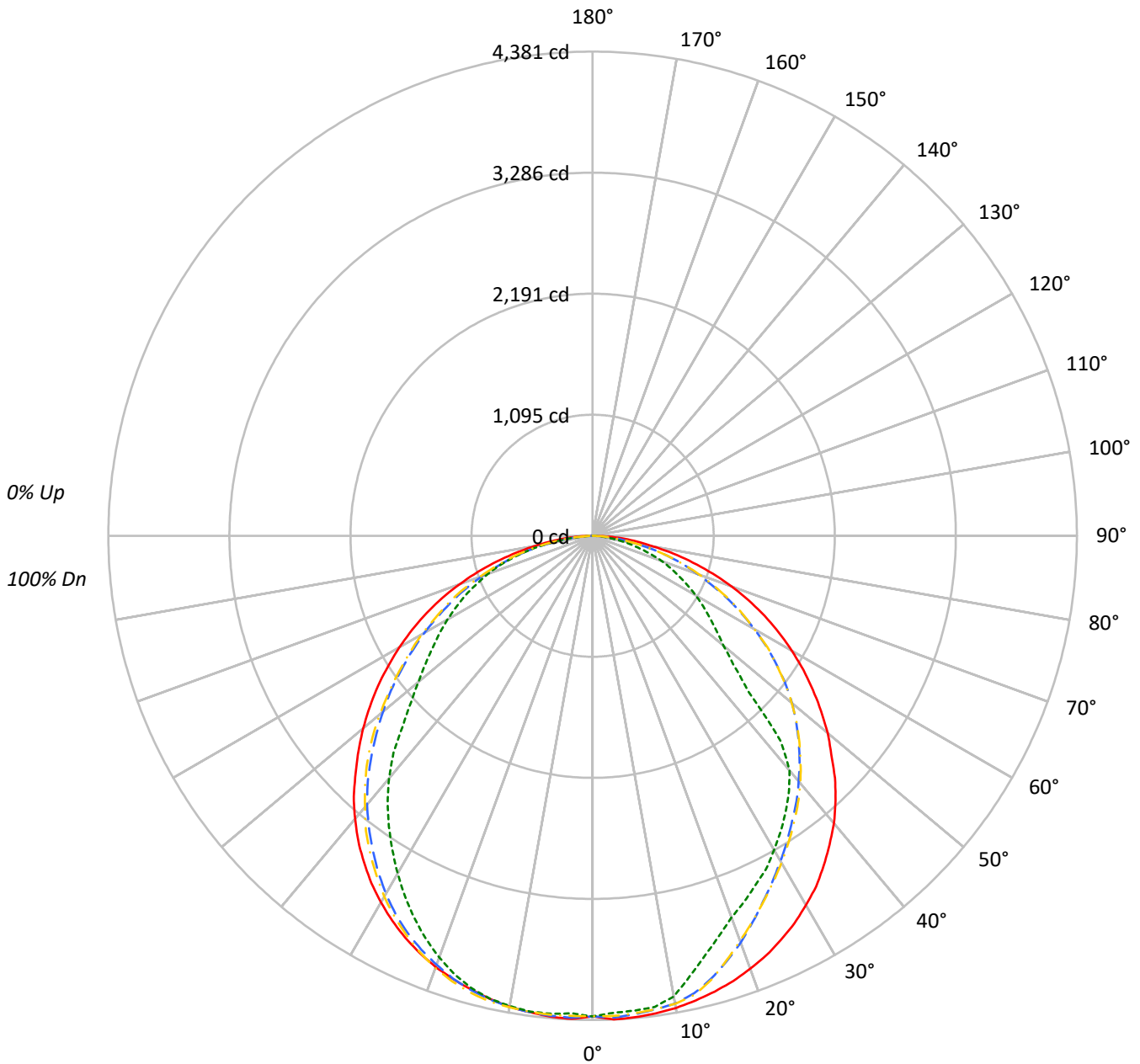
Lumens per Lamp: N/A
Luminaire Lumens: 11665.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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									
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	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°	11701	11701	11701	11701
5°	11815	11651	11796	11727
10°	11856	11563	11824	11805
15°	11893	10951	11841	11802
20°	11938	10521	11891	11624
25°	11976	10348	11913	11332
30°	11989	10199	11902	10960
35°	11970	10001	11848	10553
40°	11931	9735	11743	10063
45°	11799	7564	11532	9233
50°	11622	6475	11338	8614
55°	11415	6063	11120	8285
60°	11199	5788	10860	8148
65°	10932	5481	10561	8051
70°	10499	5212	10058	7929
75°	9774	4584	9314	7543
80°	8677	3832	8134	6399
85°	8210	2736	7203	3674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.2	3.5
10°-20°	1178.4	10.1
20°-30°	1760.9	15.1
30°-40°	2096.1	18.0
40°-50°	2095.2	18.0
50°-60°	1802.9	15.5
60°-70°	1356.9	11.6
70°-80°	773.2	6.6
80°-90°	188.2	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°	3352.5	28.7
0°-40°	5448.6	46.7
0°-60°	9346.6	80.1
0°-90°	11665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11665.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4348	4348	4348	4348	4348	
5°	4374	4313	4367	4341	4374	416
15°	4269	3931	4250	4236	4269	1206
25°	4033	3485	4012	3816	4033	1860
35°	3644	3044	3606	3212	3644	2280
45°	3100	1988	3030	2426	3100	2388
55°	2433	1292	2370	1766	2433	2175
65°	1717	861	1659	1264	1717	1695
75°	940	441	896	726	940	995
85°	266	89	233	119	266	289
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°	4348.3	4348.3	4348.3	4348.3	4348.3	4348.3	4348.3	4348.3	4348.3	4348.3	4348.3
2.5°	4381.0	4341.3	4364.7	4357.7	4320.3	4334.3	4348.3	4334.3	4376.3	4339.0	4364.7
5°	4374.0	4332.0	4346.0	4332.0	4313.3	4318.0	4339.0	4325.0	4367.0	4327.3	4360.0
7.5°	4360.0	4308.7	4322.7	4315.7	4299.3	4301.7	4322.7	4311.0	4348.3	4311.0	4348.3
10°	4339.0	4285.3	4297.0	4266.7	4231.7	4257.3	4299.3	4287.7	4327.3	4285.3	4327.3
12.5°	4306.3	4252.7	4241.0	4140.7	4077.7	4126.7	4255.0	4255.0	4292.3	4252.7	4297.0
15°	4269.0	4210.7	4147.7	3996.1	3930.8	3979.7	4157.0	4217.7	4250.3	4210.7	4255.0
17.5°	4224.7	4157.0	4035.7	3858.4	3797.8	3846.8	4028.7	4161.7	4203.7	4161.7	4201.4
20°	4168.7	4089.4	3916.8	3713.8	3674.1	3718.5	3900.4	4094.1	4152.4	4101.1	4129.0
22.5°	4108.0	4012.4	3783.8	3601.8	3583.2	3611.2	3776.8	4010.1	4087.1	4033.4	4052.1
25°	4033.4	3921.4	3650.8	3499.2	3485.2	3501.5	3655.5	3912.1	4012.4	3956.4	3963.4
27.5°	3954.1	3832.8	3524.9	3412.9	3398.9	3405.9	3534.2	3802.5	3926.1	3870.1	3858.4
30°	3858.4	3727.8	3398.9	3296.2	3282.2	3307.9	3417.5	3690.5	3830.4	3774.5	3739.5
32.5°	3762.8	3613.5	3275.2	3195.9	3167.9	3191.3	3296.2	3573.8	3725.5	3667.2	3608.8
35°	3643.8	3492.2	3146.9	3067.6	3044.3	3070.0	3174.9	3452.5	3606.5	3548.2	3468.9
37.5°	3520.2	3363.9	3030.3	2958.0	2916.0	2946.3	3051.3	3326.6	3482.9	3422.2	3324.2
40°	3396.5	3228.6	2899.7	2825.0	2771.4	2815.7	2923.0	3193.6	3342.9	3286.9	3174.9
42.5°	3251.9	3093.3	2771.4	2666.4	2514.8	2657.1	2785.4	3060.6	3198.3	3144.6	3009.3
45°	3100.3	2948.7	2636.1	2381.8	1987.5	2405.1	2645.4	2920.7	3030.3	2979.0	2832.0
47.5°	2927.7	2799.4	2498.4	2111.2	1728.6	2134.5	2503.1	2787.7	2871.7	2815.7	2652.4
50°	2776.0	2650.1	2353.8	1882.6	1546.6	1908.2	2351.5	2638.4	2708.4	2657.1	2475.1
52.5°	2603.4	2493.8	2197.5	1679.6	1411.3	1705.3	2192.8	2484.4	2540.4	2479.8	2297.8
55°	2433.1	2335.1	2031.9	1500.0	1292.4	1523.3	2027.2	2325.8	2370.1	2300.1	2111.2
57.5°	2260.5	2171.8	1861.6	1339.0	1182.7	1364.7	1873.2	2162.5	2192.8	2104.2	1931.6
60°	2080.9	2006.2	1688.9	1196.7	1075.4	1217.7	1684.3	1999.2	2017.9	1922.2	1756.6
62.5°	1901.2	1833.6	1516.3	1066.1	965.8	1080.1	1528.0	1826.6	1838.2	1747.3	1577.0
65°	1716.9	1654.0	1348.4	928.5	860.8	951.8	1360.0	1647.0	1658.6	1556.0	1402.0
67.5°	1525.6	1474.3	1168.7	823.5	760.5	830.5	1192.1	1465.0	1472.0	1371.7	1231.7
70°	1334.4	1290.0	1010.1	709.2	662.5	711.5	1026.4	1264.4	1278.4	1171.1	1059.1
72.5°	1138.4	1103.4	856.1	590.2	548.2	590.2	865.5	1080.1	1089.4	1000.8	891.1
75°	940.1	914.5	699.8	473.6	440.9	471.2	704.5	895.8	895.8	811.8	725.5
77.5°	748.8	730.2	536.5	363.9	340.6	359.3	538.9	709.2	704.5	639.2	571.5
80°	559.9	545.9	384.9	263.6	247.3	256.6	384.9	524.9	524.9	478.2	396.6
82.5°	401.2	384.9	254.3	172.6	163.3	168.0	249.6	366.2	373.2	338.3	268.3
85°	265.9	228.6	137.6	95.6	88.6	91.0	130.6	212.3	233.3	196.0	140.0
87.5°	116.6	77.0	35.0	14.0	7.0	9.3	28.0	67.7	88.6	58.3	18.7
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°	4348.3	4348.3	4348.3	4348.3	4348.3	4348.3
2.5°	4362.3	4325.0	4339.0	4348.3	4339.0	4381.0
5°	4357.7	4341.3	4339.0	4350.7	4332.0	4374.0
7.5°	4350.7	4341.3	4339.0	4343.7	4320.3	4360.0
10°	4334.3	4320.3	4325.0	4332.0	4301.7	4339.0
12.5°	4304.0	4290.0	4292.3	4315.7	4273.7	4306.3
15°	4252.7	4236.4	4252.7	4278.3	4241.0	4269.0
17.5°	4185.0	4159.4	4187.4	4227.0	4199.0	4224.7
20°	4098.7	4059.1	4089.4	4161.7	4136.0	4168.7
22.5°	3993.7	3944.8	3975.1	4080.1	4073.1	4108.0
25°	3874.8	3816.4	3858.4	3986.7	4000.7	4033.4
27.5°	3741.8	3676.5	3732.5	3884.1	3916.8	3954.1
30°	3597.2	3527.2	3592.5	3769.8	3818.8	3858.4
32.5°	3447.9	3370.9	3445.5	3641.5	3711.5	3762.8
35°	3291.6	3212.3	3296.2	3508.5	3592.5	3643.8
37.5°	3123.6	3046.6	3137.6	3368.6	3468.9	3520.2
40°	2951.0	2864.7	2967.3	3202.9	3335.9	3396.5
42.5°	2773.7	2666.4	2792.4	3046.6	3191.3	3251.9
45°	2575.4	2426.1	2596.4	2881.0	3032.6	3100.3
47.5°	2377.1	2227.8	2400.4	2703.7	2867.0	2927.7
50°	2185.8	2057.5	2195.2	2510.1	2699.0	2776.0
52.5°	2010.9	1905.9	2022.5	2321.1	2526.4	2603.4
55°	1847.6	1765.9	1861.6	2134.5	2344.5	2433.1
57.5°	1693.6	1642.3	1707.6	1957.2	2176.5	2260.5
60°	1549.0	1514.0	1560.6	1782.3	1978.2	2080.9
62.5°	1406.7	1388.0	1423.0	1598.0	1793.9	1901.2
65°	1269.0	1264.4	1283.0	1437.0	1600.3	1716.9
67.5°	1131.4	1129.1	1140.7	1266.7	1411.3	1525.6
70°	993.8	1007.8	1000.8	1082.4	1222.4	1334.4
72.5°	853.8	874.8	863.1	914.5	1049.8	1138.4
75°	697.5	725.5	702.2	760.5	844.5	940.1
77.5°	536.5	566.9	538.9	590.2	681.2	748.8
80°	384.9	412.9	389.6	429.2	508.5	559.9
82.5°	242.6	263.6	244.9	284.6	363.9	401.2
85°	107.3	119.0	123.6	154.0	223.9	265.9
87.5°	4.7	2.3	4.7	30.3	79.3	116.6
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)