

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: P520741

Luminaire Tested: **8WSLA-200-L940-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520741  
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-200-L940-UNV-U  
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

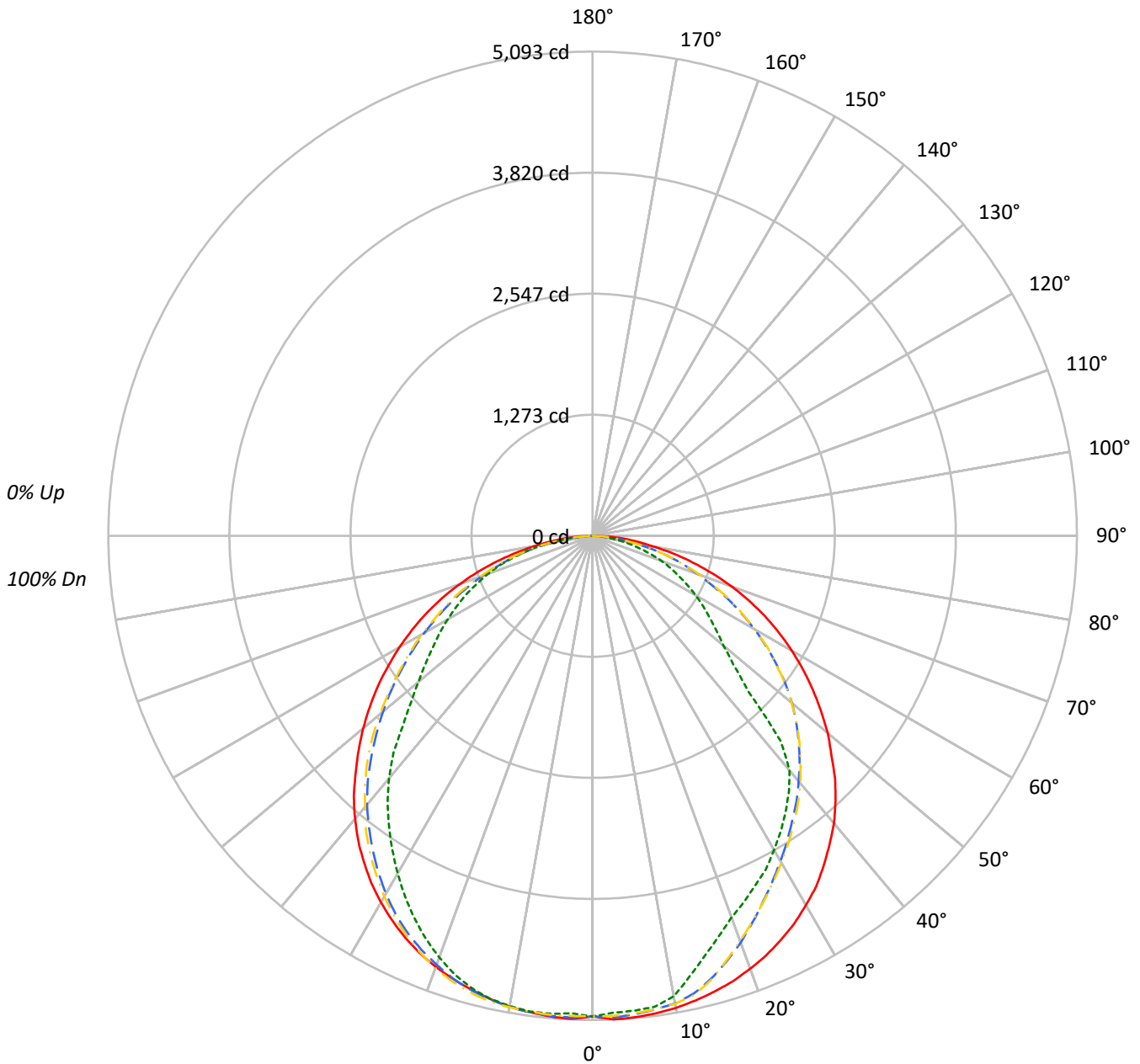
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13560.0 lumens  
Efficiency: N/A  
Efficacy: 89.0 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): 152.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	13602	13602	13602	13602
5°	13735	13544	13713	13632
10°	13782	13441	13745	13723
15°	13825	12730	13765	13719
20°	13877	12231	13823	13512
25°	13921	12029	13849	13172
30°	13937	11855	13836	12740
35°	13915	11625	13772	12267
40°	13870	11317	13651	11698
45°	13715	8793	13406	10733
50°	13510	7527	13181	10013
55°	13270	7048	12926	9631
60°	13018	6728	12624	9472
65°	12709	6371	12277	9359
70°	12204	6059	11692	9217
75°	11362	5329	10827	8769
80°	10085	4454	9455	7438
85°	9544	3180	8373	4270



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.3	3.5
10°-20°	1369.9	10.1
20°-30°	2047.0	15.1
30°-40°	2436.6	18.0
40°-50°	2435.5	18.0
50°-60°	2095.7	15.5
60°-70°	1577.4	11.6
70°-80°	898.9	6.6
80°-90°	218.8	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°	3897.1	28.7
0°-40°	6333.7	46.7
0°-60°	10865.0	80.1
0°-90°	13560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13560.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5055	5055	5055	5055	5055	
5°	5084	5014	5076	5047	5084	484
15°	4962	4569	4941	4925	4962	1402
25°	4689	4051	4664	4436	4689	2162
35°	4236	3539	4192	3734	4236	2650
45°	3604	2310	3523	2820	3604	2775
55°	2828	1502	2755	2053	2828	2529
65°	1996	1001	1928	1470	1996	1971
75°	1093	512	1041	843	1093	1157
85°	309	103	271	138	309	336
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°	5054.7	5054.7	5054.7	5054.7	5054.7	5054.7	5054.7	5054.7	5054.7	5054.7	5054.7
2.5°	5092.7	5046.6	5073.7	5065.6	5022.2	5038.4	5054.7	5038.4	5087.3	5043.9	5073.7
5°	5084.5	5035.7	5052.0	5035.7	5014.0	5019.5	5043.9	5027.6	5076.4	5030.3	5068.3
7.5°	5068.3	5008.6	5024.9	5016.8	4997.8	5000.5	5024.9	5011.3	5054.7	5011.3	5054.7
10°	5043.9	4981.5	4995.1	4959.8	4919.1	4949.0	4997.8	4984.2	5030.3	4981.5	5030.3
12.5°	5005.9	4943.5	4930.0	4813.4	4740.2	4797.1	4946.2	4946.2	4989.6	4943.5	4995.1
15°	4962.5	4894.7	4821.5	4645.2	4569.3	4626.3	4832.4	4902.9	4940.8	4894.7	4946.2
17.5°	4911.0	4832.4	4691.3	4485.3	4414.7	4471.7	4683.2	4837.8	4886.6	4837.8	4883.9
20°	4845.9	4753.7	4553.0	4317.1	4271.0	4322.5	4534.1	4759.1	4826.9	4767.3	4799.8
22.5°	4775.4	4664.2	4398.5	4187.0	4165.3	4197.8	4390.3	4661.5	4751.0	4688.6	4710.3
25°	4688.6	4558.5	4243.9	4067.6	4051.4	4070.4	4249.3	4547.6	4664.2	4599.1	4607.3
27.5°	4596.4	4455.4	4097.5	3967.3	3951.0	3959.2	4108.3	4420.2	4563.9	4498.8	4485.3
30°	4485.3	4333.4	3951.0	3831.7	3815.4	3845.3	3972.7	4290.0	4452.7	4387.6	4347.0
32.5°	4374.1	4200.5	3807.3	3715.1	3682.6	3709.7	3831.7	4154.4	4330.7	4262.9	4195.1
35°	4235.8	4059.5	3658.2	3566.0	3538.8	3568.7	3690.7	4013.4	4192.4	4124.6	4032.4
37.5°	4092.0	3910.4	3522.6	3438.5	3389.7	3425.0	3547.0	3867.0	4048.7	3978.2	3864.3
40°	3948.3	3753.1	3370.7	3283.9	3221.6	3273.1	3397.8	3712.4	3886.0	3820.9	3690.7
42.5°	3780.2	3595.8	3221.6	3099.5	2923.3	3088.7	3237.8	3557.8	3717.8	3655.5	3498.2
45°	3603.9	3427.7	3064.3	2768.7	2310.4	2795.8	3075.1	3395.1	3522.6	3462.9	3292.1
47.5°	3403.3	3254.1	2904.3	2454.1	2009.4	2481.3	2909.7	3240.6	3338.2	3273.1	3083.3
50°	3227.0	3080.6	2736.2	2188.4	1797.9	2218.2	2733.5	3067.0	3148.4	3088.7	2877.2
52.5°	3026.3	2898.9	2554.5	1952.5	1640.6	1982.3	2549.1	2888.0	2953.1	2882.6	2671.1
55°	2828.4	2714.5	2361.9	1743.7	1502.3	1770.8	2356.5	2703.6	2755.1	2673.8	2454.1
57.5°	2627.7	2524.6	2164.0	1556.6	1374.9	1586.4	2177.5	2513.8	2549.1	2446.0	2245.3
60°	2418.9	2332.1	1963.3	1391.1	1250.1	1415.5	1957.9	2324.0	2345.7	2234.5	2042.0
62.5°	2210.1	2131.4	1762.6	1239.3	1122.7	1255.5	1776.2	2123.3	2136.9	2031.1	1833.1
65°	1995.9	1922.6	1567.4	1079.3	1000.6	1106.4	1581.0	1914.5	1928.1	1808.7	1629.8
67.5°	1773.5	1713.8	1358.6	957.3	884.0	965.4	1385.7	1703.0	1711.1	1594.5	1431.8
70°	1551.1	1499.6	1174.2	824.4	770.1	827.1	1193.2	1469.8	1486.0	1361.3	1231.1
72.5°	1323.3	1282.7	995.2	686.1	637.3	686.1	1006.1	1255.5	1266.4	1163.3	1035.9
75°	1092.8	1063.0	813.5	550.5	512.5	547.8	819.0	1041.3	1041.3	943.7	843.4
77.5°	870.5	848.8	623.7	423.0	395.9	417.6	626.4	824.4	819.0	743.0	664.4
80°	650.8	634.6	447.4	306.4	287.4	298.3	447.4	610.1	610.1	555.9	461.0
82.5°	466.4	447.4	295.6	200.7	189.8	195.2	290.2	425.7	433.9	393.2	311.9
85°	309.1	265.8	160.0	111.2	103.0	105.8	151.9	246.8	271.2	227.8	162.7
87.5°	135.6	89.5	40.7	16.3	8.1	10.8	32.5	78.6	103.0	67.8	21.7
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°	5054.7	5054.7	5054.7	5054.7	5054.7	5054.7
2.5°	5071.0	5027.6	5043.9	5054.7	5043.9	5092.7
5°	5065.6	5046.6	5043.9	5057.4	5035.7	5084.5
7.5°	5057.4	5046.6	5043.9	5049.3	5022.2	5068.3
10°	5038.4	5022.2	5027.6	5035.7	5000.5	5043.9
12.5°	5003.2	4986.9	4989.6	5016.8	4967.9	5005.9
15°	4943.5	4924.6	4943.5	4973.4	4930.0	4962.5
17.5°	4864.9	4835.1	4867.6	4913.7	4881.2	4911.0
20°	4764.6	4718.5	4753.7	4837.8	4807.9	4845.9
22.5°	4642.5	4585.6	4620.8	4742.9	4734.7	4775.4
25°	4504.2	4436.4	4485.3	4634.4	4650.7	4688.6
27.5°	4349.7	4273.7	4338.8	4515.1	4553.0	4596.4
30°	4181.5	4100.2	4176.1	4382.2	4439.2	4485.3
32.5°	4008.0	3918.5	4005.3	4233.1	4314.4	4374.1
35°	3826.3	3734.1	3831.7	4078.5	4176.1	4235.8
37.5°	3631.0	3541.6	3647.3	3915.8	4032.4	4092.0
40°	3430.4	3330.0	3449.4	3723.2	3877.8	3948.3
42.5°	3224.3	3099.5	3246.0	3541.6	3709.7	3780.2
45°	2993.8	2820.2	3018.2	3349.0	3525.3	3603.9
47.5°	2763.3	2589.7	2790.4	3142.9	3332.8	3403.3
50°	2540.9	2391.8	2551.8	2917.9	3137.5	3227.0
52.5°	2337.5	2215.5	2351.1	2698.2	2936.8	3026.3
55°	2147.7	2052.8	2164.0	2481.3	2725.3	2828.4
57.5°	1968.7	1909.1	1985.0	2275.2	2530.1	2627.7
60°	1800.6	1759.9	1814.2	2071.8	2299.6	2418.9
62.5°	1635.2	1613.5	1654.2	1857.6	2085.3	2210.1
65°	1475.2	1469.8	1491.5	1670.4	1860.3	1995.9
67.5°	1315.2	1312.5	1326.1	1472.5	1640.6	1773.5
70°	1155.2	1171.5	1163.3	1258.3	1421.0	1551.1
72.5°	992.5	1016.9	1003.4	1063.0	1220.3	1323.3
75°	810.8	843.4	816.2	884.0	981.7	1092.8
77.5°	623.7	659.0	626.4	686.1	791.8	870.5
80°	447.4	480.0	452.9	499.0	591.2	650.8
82.5°	282.0	306.4	284.7	330.8	423.0	466.4
85°	124.7	138.3	143.7	179.0	260.3	309.1
87.5°	5.4	2.7	5.4	35.3	92.2	135.6
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)