

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: P520694

Luminaire Tested: **8WSLA-150-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-150-L940-UPL15-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

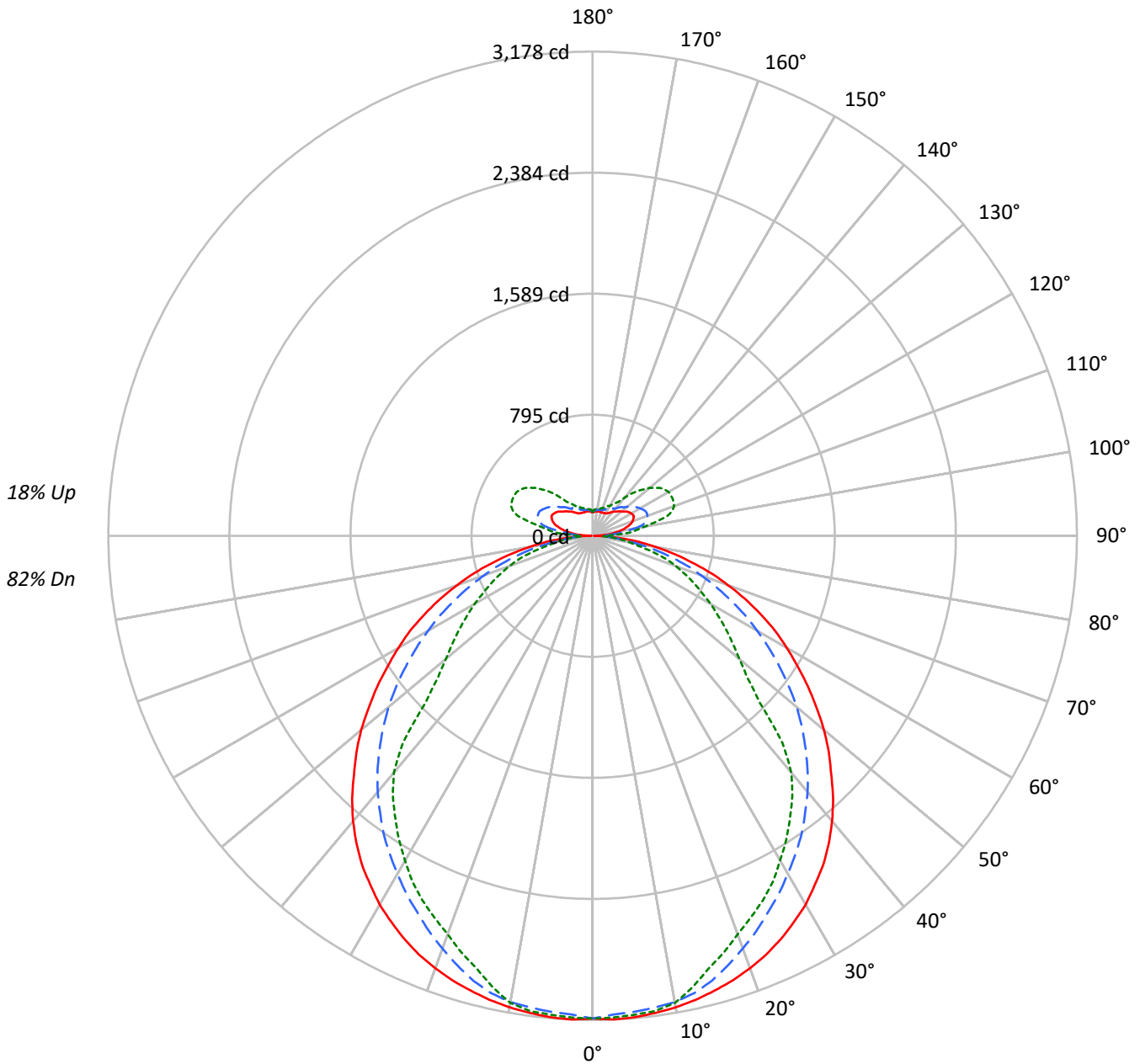
Lumens per Lamp: N/A
Luminaire Lumens: 10261.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8526	8526	8526
5°	8567	8472	8524
10°	8587	8491	8508
15°	8612	8424	8191
20°	8650	8254	7969
25°	8673	8091	7842
30°	8687	7958	7648
35°	8666	7854	7421
40°	8590	7710	7123
45°	8426	7521	5906
50°	8300	7318	5260
55°	8095	7025	5005
60°	7921	6710	4808
65°	7734	6343	4665
70°	7433	5941	4576
75°	7016	5446	4210
80°	6423	4581	3735
85°	5755	3968	3770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	2.9
10°-20°	853.0	8.3
20°-30°	1273.0	12.4
30°-40°	1516.8	14.8
40°-50°	1508.7	14.7
50°-60°	1293.0	12.6
60°-70°	973.8	9.5
70°-80°	564.0	5.5
80°-90°	169.5	1.7
90°-100°	182.0	1.8
100°-110°	373.7	3.6
110°-120°	395.1	3.9
120°-130°	329.6	3.2
130°-140°	230.3	2.2
140°-150°	143.3	1.4
150°-160°	88.8	0.9
160°-170°	50.0	0.5
170°-180°	16.1	0.2
0°-30°	2426.2	23.6
0°-40°	3943.0	38.4
0°-60°	6744.7	65.7
0°-90°	8452.0	82.4
90°-120°	950.8	9.3
90°-150°	1654.0	16.1
90°-180°	1809.0	17.6
0°-180°	10261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3168	3168	3168	3168	3168	
5°	3172	3162	3136	3159	3156	302
15°	3091	3088	3024	2972	2940	874
25°	2921	2879	2725	2657	2641	1347
35°	2638	2567	2391	2298	2259	1648
45°	2214	2159	1976	1780	1552	1712
55°	1726	1700	1497	1189	1067	1543
65°	1215	1186	996	774	733	1201
75°	675	652	524	418	405	715
85°	186	164	128	122	122	199
90°	10	45	77	96	103	19
95°	103	138	158	231	251	98
105°	241	251	360	482	511	250
115°	299	254	382	527	578	291
125°	276	244	331	485	546	245
135°	225	244	267	360	414	176
145°	183	212	231	247	264	116
155°	167	177	190	206	209	77
165°	164	170	177	183	183	46
175°	161	164	167	170	174	15
180°	158	158	158	158	158	



TEST NUMBER: P520694

CATALOG NUMBER: 8WSLA-150-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3168.3	3168.3	3168.3	3168.3	3168.3
2.5°	3178.0	3171.5	3145.8	3171.5	3165.1
5°	3171.5	3161.9	3136.2	3158.7	3155.5
7.5°	3158.7	3152.2	3123.3	3149.0	3145.8
10°	3142.6	3133.0	3107.3	3126.5	3113.7
12.5°	3120.1	3113.7	3075.1	3059.1	3033.4
15°	3091.2	3088.0	3023.7	2972.3	2940.2
17.5°	3059.1	3046.2	2956.2	2895.2	2866.3
20°	3020.5	3001.2	2882.3	2811.6	2782.7
22.5°	2975.5	2946.6	2808.4	2740.9	2712.0
25°	2920.9	2879.1	2724.9	2657.4	2641.3
27.5°	2859.8	2811.6	2647.8	2580.3	2561.0
30°	2795.6	2734.5	2561.0	2496.7	2461.4
32.5°	2715.2	2657.4	2477.5	2403.5	2365.0
35°	2638.1	2567.4	2390.7	2297.5	2258.9
37.5°	2544.9	2474.2	2291.1	2197.9	2152.9
40°	2445.3	2374.6	2194.7	2085.4	2027.6
42.5°	2336.1	2271.8	2088.6	1956.9	1844.4
45°	2214.0	2159.3	1976.2	1780.2	1552.0
47.5°	2101.5	2050.1	1863.7	1609.9	1375.3
50°	1982.6	1934.4	1748.0	1449.2	1256.4
52.5°	1850.9	1815.5	1622.7	1311.0	1156.8
55°	1725.5	1699.8	1497.4	1188.9	1066.8
57.5°	1593.8	1568.1	1372.1	1073.2	976.8
60°	1471.7	1446.0	1246.8	970.4	893.3
62.5°	1349.6	1314.2	1124.7	870.8	806.5
65°	1214.6	1185.7	996.1	774.4	732.6
67.5°	1079.7	1054.0	877.2	684.4	655.5
70°	944.7	922.2	755.1	597.7	581.6
72.5°	813.0	784.0	645.9	510.9	504.5
75°	674.8	652.3	523.8	417.7	404.9
77.5°	543.0	523.8	411.3	318.1	308.5
80°	414.5	395.2	295.6	231.4	241.0
82.5°	305.3	279.6	199.2	179.9	189.6
85°	186.4	163.9	128.5	122.1	122.1
87.5°	64.3	61.1	57.8	67.5	70.7
90°	9.6	45.0	77.1	96.4	102.8
92.5°	54.6	80.3	106.0	125.3	131.7
95°	102.8	138.2	157.5	231.4	250.6
97.5°	141.4	183.2	205.7	273.1	292.4
100°	179.9	218.5	289.2	324.5	347.0
102.5°	212.1	241.0	340.6	411.3	424.2
105°	241.0	250.6	359.9	482.0	510.9



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CATALOG NUMBER: 8WSLA-150-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	289.2	257.1	385.6	523.8	575.2
115°	298.8	253.9	382.4	527.0	578.4
117.5°	298.8	253.9	372.7	527.0	578.4
120°	292.4	257.1	359.9	520.6	575.2
122.5°	286.0	250.6	347.0	507.7	562.3
125°	276.3	244.2	331.0	485.2	546.3
127.5°	260.3	250.6	314.9	456.3	517.3
130°	247.4	253.9	295.6	427.4	488.4
132.5°	237.8	247.4	276.3	395.2	449.9
135°	224.9	244.2	266.7	359.9	414.5
137.5°	215.3	234.6	250.6	327.8	372.7
140°	205.7	228.1	234.6	286.0	324.5
142.5°	192.8	218.5	221.7	266.7	282.8
145°	183.2	212.1	231.4	247.4	263.5
147.5°	173.5	199.2	224.9	228.1	244.2
150°	170.3	186.4	215.3	218.5	224.9
152.5°	167.1	179.9	199.2	218.5	221.7
155°	167.1	176.7	189.6	205.7	208.9
157.5°	163.9	176.7	183.2	196.0	199.2
160°	163.9	173.5	179.9	189.6	192.8
162.5°	163.9	173.5	176.7	186.4	189.6
165°	163.9	170.3	176.7	183.2	183.2
167.5°	163.9	170.3	173.5	179.9	179.9
170°	163.9	167.1	173.5	176.7	176.7
172.5°	160.7	167.1	170.3	176.7	176.7
175°	160.7	163.9	167.1	170.3	173.5
177.5°	154.2	163.9	167.1	170.3	167.1
180°	157.5	157.5	157.5	157.5	157.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	263.5	253.9	372.7	507.7	549.5
110°	279.6	257.1	382.4	517.3	568.8



(END OF REPORT)