

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: P520695

Luminaire Tested: **8WSLA-150-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520695  
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-150-L940-UPL8-UNV-U  
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

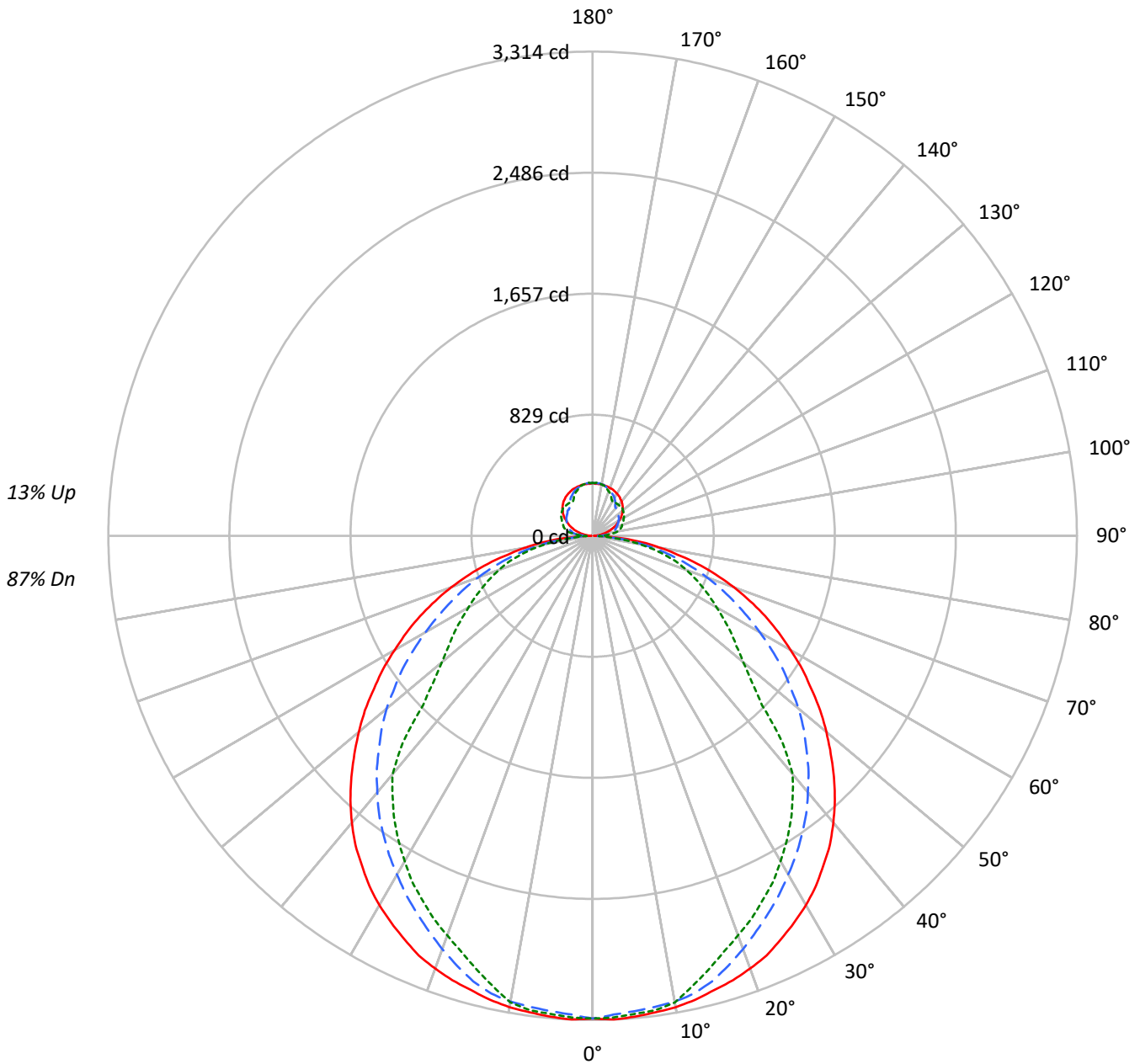
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10284.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 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: Semi-Direct  
  
Input Watts (W): 93.6  
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	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°	8892	8892	8892
5°	8926	8824	8875
10°	8952	8848	8861
15°	8968	8795	8557
20°	9027	8619	8333
25°	9049	8456	8174
30°	9071	8318	7993
35°	9044	8200	7778
40°	9003	8050	7483
45°	8884	7871	6243
50°	8738	7703	5633
55°	8566	7451	5421
60°	8419	7114	5272
65°	8295	6812	5268
70°	8080	6547	5349
75°	7712	6229	5389
80°	7221	5601	5010
85°	6607	3964	3378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.8	3.0
10°-20°	889.4	8.6
20°-30°	1328.9	12.9
30°-40°	1586.4	15.4
40°-50°	1586.5	15.4
50°-60°	1373.0	13.4
60°-70°	1053.9	10.2
70°-80°	645.8	6.3
80°-90°	181.8	1.8
90°-100°	102.7	1.0
100°-110°	163.1	1.6
110°-120°	190.7	1.9
120°-130°	205.9	2.0
130°-140°	202.8	2.0
140°-150°	179.4	1.7
150°-160°	147.7	1.4
160°-170°	98.8	1.0
170°-180°	34.4	0.3
0°-30°	2531.1	24.6
0°-40°	4117.5	40.0
0°-60°	7077.0	68.8
0°-90°	8958.5	87.1
90°-120°	456.5	4.4
90°-150°	1044.6	10.2
90°-180°	1326.0	12.9
0°-180°	10284.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3304	3304	3304	3304	3304	
5°	3304	3295	3266	3290	3286	314
15°	3219	3214	3157	3100	3072	911
25°	3048	3010	2848	2772	2753	1406
35°	2753	2682	2496	2406	2368	1724
45°	2334	2268	2068	1883	1640	1800
55°	1826	1783	1588	1270	1155	1637
65°	1303	1255	1070	861	827	1287
75°	742	704	599	518	518	782
85°	214	176	128	109	109	224
90°	10	33	52	67	71	15
95°	38	81	109	114	114	38
105°	109	114	162	190	200	115
115°	181	152	190	219	233	177
125°	242	195	219	252	262	216
135°	290	262	242	266	280	224
145°	323	309	271	266	276	202
155°	342	338	319	304	300	158
165°	352	357	347	347	347	100
175°	357	361	361	366	366	34
180°	361	361	361	361	361	



TEST NUMBER: P520695

CATALOG NUMBER: 8WSLA-150-L940-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3304.5	3304.5	3304.5	3304.5	3304.5
2.5°	3314.0	3304.5	3280.7	3304.5	3299.7
5°	3304.5	3295.0	3266.5	3290.2	3285.5
7.5°	3290.2	3280.7	3252.2	3280.7	3276.0
10°	3276.0	3266.5	3237.9	3256.9	3242.7
12.5°	3252.2	3242.7	3209.4	3185.6	3157.1
15°	3218.9	3214.2	3157.1	3100.0	3071.5
17.5°	3190.4	3176.1	3085.8	3019.2	2985.9
20°	3152.3	3128.6	3009.7	2933.6	2909.9
22.5°	3109.6	3071.5	2928.9	2857.6	2838.5
25°	3047.7	3009.7	2848.0	2772.0	2753.0
27.5°	2985.9	2938.4	2767.2	2691.1	2672.1
30°	2919.4	2852.8	2676.9	2605.6	2572.3
32.5°	2843.3	2776.7	2591.3	2510.5	2472.4
35°	2753.0	2681.6	2496.2	2405.9	2367.8
37.5°	2667.4	2591.3	2401.1	2301.3	2249.0
40°	2562.8	2486.7	2291.7	2182.4	2130.1
42.5°	2453.4	2382.1	2187.1	2054.0	1925.6
45°	2334.5	2268.0	2068.3	1882.8	1640.4
47.5°	2210.9	2153.9	1958.9	1706.9	1473.9
50°	2087.3	2030.2	1840.1	1540.5	1345.6
52.5°	1963.7	1916.1	1706.9	1402.6	1241.0
55°	1825.8	1783.0	1588.1	1269.5	1155.4
57.5°	1702.2	1659.4	1450.2	1160.1	1065.0
60°	1564.3	1526.2	1321.8	1050.8	979.5
62.5°	1435.9	1393.1	1193.4	955.7	903.4
65°	1302.8	1255.2	1069.8	860.6	827.3
67.5°	1164.9	1117.3	950.9	775.0	756.0
70°	1027.0	989.0	832.1	689.4	679.9
72.5°	884.4	841.6	713.2	608.6	608.6
75°	741.7	703.7	599.1	518.3	518.3
77.5°	594.3	575.3	480.2	423.2	427.9
80°	466.0	442.2	361.4	323.3	323.3
82.5°	342.3	313.8	242.5	214.0	223.5
85°	214.0	175.9	128.4	109.4	109.4
87.5°	66.6	52.3	38.0	42.8	42.8
90°	9.5	33.3	52.3	66.6	71.3
92.5°	23.8	61.8	76.1	90.3	95.1
95°	38.0	80.8	109.4	114.1	114.1
97.5°	52.3	90.3	133.1	152.1	152.1
100°	71.3	95.1	142.6	171.2	175.9
102.5°	90.3	104.6	152.1	180.7	190.2
105°	109.4	114.1	161.7	190.2	199.7



TEST NUMBER: P520695

CATALOG NUMBER: 8WSLA-150-L940-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	161.7	142.6	180.7	214.0	223.5
115°	180.7	152.1	190.2	218.7	233.0
117.5°	194.9	166.4	199.7	228.2	237.7
120°	209.2	175.9	204.5	237.7	247.2
122.5°	228.2	185.4	214.0	242.5	256.8
125°	242.5	194.9	218.7	252.0	261.5
127.5°	256.8	214.0	223.5	256.8	266.3
130°	266.3	233.0	228.2	261.5	271.0
132.5°	280.5	247.2	233.0	266.3	275.8
135°	290.0	261.5	242.5	266.3	280.5
137.5°	299.5	275.8	242.5	266.3	275.8
140°	309.1	290.0	247.2	266.3	275.8
142.5°	313.8	299.5	252.0	266.3	275.8
145°	323.3	309.1	271.0	266.3	275.8
147.5°	328.1	318.6	285.3	266.3	275.8
150°	332.8	328.1	299.5	271.0	271.0
152.5°	337.6	332.8	309.1	290.0	280.5
155°	342.3	337.6	318.6	304.3	299.5
157.5°	347.1	347.1	328.1	318.6	313.8
160°	347.1	351.8	337.6	328.1	323.3
162.5°	351.8	356.6	342.3	337.6	332.8
165°	351.8	356.6	347.1	347.1	347.1
167.5°	356.6	361.4	356.6	351.8	351.8
170°	356.6	361.4	356.6	356.6	356.6
172.5°	356.6	361.4	361.4	361.4	361.4
175°	356.6	361.4	361.4	366.1	366.1
177.5°	356.6	361.4	361.4	361.4	361.4
180°	361.4	361.4	361.4	361.4	361.4



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	128.4	123.6	166.4	199.7	209.2
110°	142.6	133.1	175.9	204.5	214.0



(END OF REPORT)