

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: P520683

Luminaire Tested: **8WSLA-150-L840-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520683
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-L840-UPL8-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

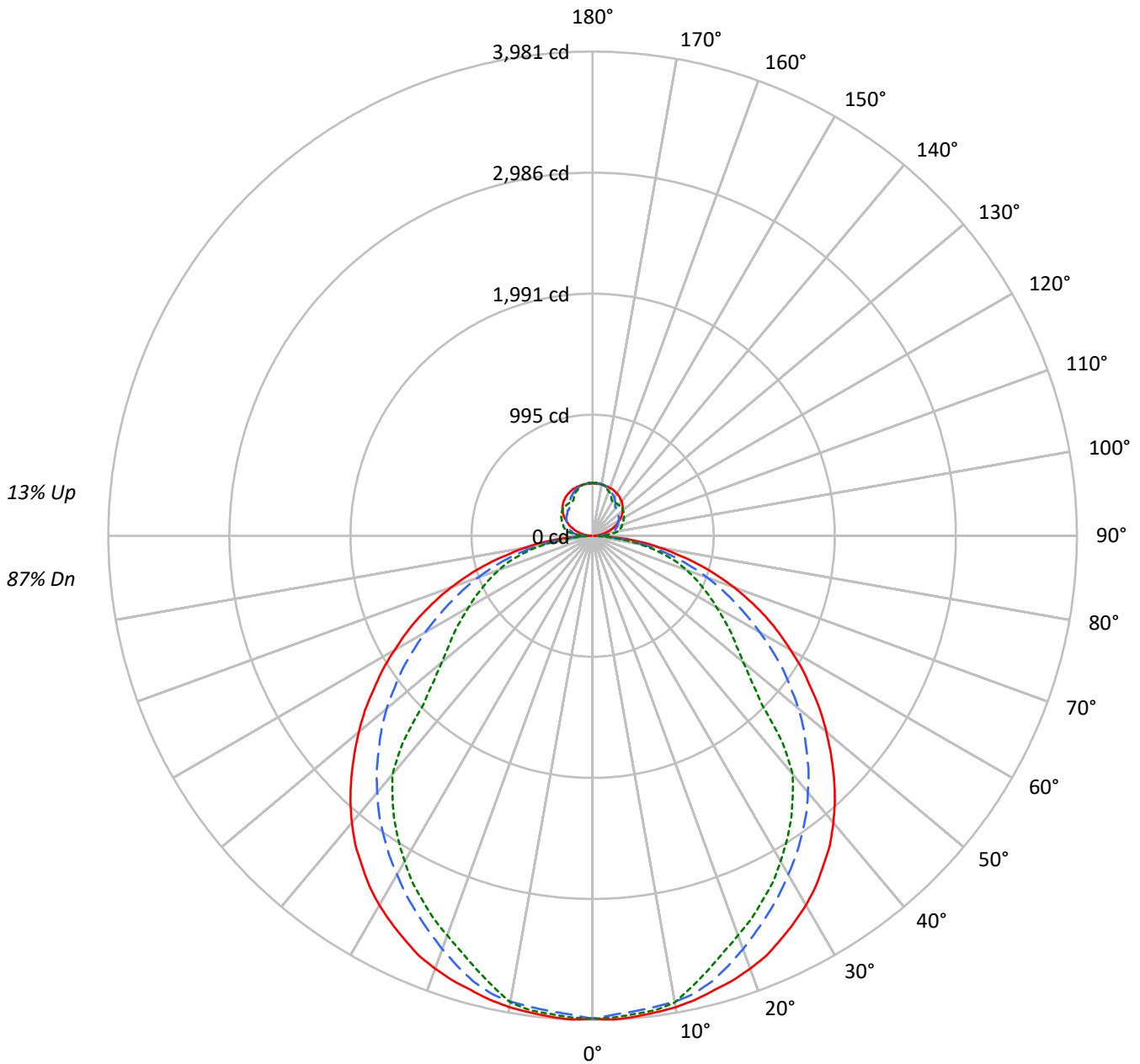
Lumens per Lamp: N/A
Luminaire Lumens: 12355.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	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°	10683	10683	10683
5°	10724	10601	10662
10°	10754	10629	10645
15°	10773	10567	10280
20°	10845	10354	10011
25°	10872	10159	9820
30°	10898	9993	9602
35°	10865	9852	9345
40°	10816	9672	8989
45°	10674	9456	7500
50°	10498	9254	6767
55°	10291	8951	6512
60°	10114	8547	6333
65°	9966	8183	6329
70°	9707	7865	6426
75°	9265	7483	6473
80°	8675	6727	6019
85°	7935	4761	4057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	3.0
10°-20°	1068.5	8.6
20°-30°	1596.5	12.9
30°-40°	1905.8	15.4
40°-50°	1906.0	15.4
50°-60°	1649.5	13.4
60°-70°	1266.1	10.2
70°-80°	775.8	6.3
80°-90°	218.4	1.8
90°-100°	123.4	1.0
100°-110°	195.9	1.6
110°-120°	229.1	1.9
120°-130°	247.3	2.0
130°-140°	243.7	2.0
140°-150°	215.6	1.7
150°-160°	177.4	1.4
160°-170°	118.7	1.0
170°-180°	41.3	0.3
0°-30°	3040.9	24.6
0°-40°	4946.7	40.0
0°-60°	8502.2	68.8
0°-90°	10762.5	87.1
90°-120°	548.4	4.4
90°-150°	1255.0	10.2
90°-180°	1592.0	12.9
0°-180°	12355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3970	3970	3970	3970	3970	
5°	3970	3958	3924	3953	3947	378
15°	3867	3861	3793	3724	3690	1094
25°	3662	3616	3422	3330	3307	1689
35°	3307	3222	2999	2890	2845	2071
45°	2805	2725	2485	2262	1971	2163
55°	2194	2142	1908	1525	1388	1966
65°	1565	1508	1285	1034	994	1546
75°	891	845	720	623	623	940
85°	257	211	154	131	131	269
90°	11	40	63	80	86	18
95°	46	97	131	137	137	45
105°	131	137	194	228	240	138
115°	217	183	228	263	280	212
125°	291	234	263	303	314	260
135°	348	314	291	320	337	269
145°	388	371	326	320	331	242
155°	411	406	383	366	360	190
165°	423	428	417	417	417	120
175°	428	434	434	440	440	41
180°	434	434	434	434	434	



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CATALOG NUMBER: 8WSLA-150-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3970.0	3970.0	3970.0	3970.0	3970.0
2.5°	3981.4	3970.0	3941.4	3970.0	3964.2
5°	3970.0	3958.5	3924.3	3952.8	3947.1
7.5°	3952.8	3941.4	3907.1	3941.4	3935.7
10°	3935.7	3924.3	3890.0	3912.8	3895.7
12.5°	3907.1	3895.7	3855.7	3827.1	3792.9
15°	3867.1	3861.4	3792.9	3724.3	3690.1
17.5°	3832.9	3815.7	3707.2	3627.2	3587.2
20°	3787.2	3758.6	3615.8	3524.4	3495.8
22.5°	3735.8	3690.1	3518.7	3433.0	3410.2
25°	3661.5	3615.8	3421.6	3330.2	3307.3
27.5°	3587.2	3530.1	3324.5	3233.1	3210.2
30°	3507.3	3427.3	3215.9	3130.3	3090.3
32.5°	3415.9	3335.9	3113.1	3016.0	2970.3
35°	3307.3	3221.7	2998.9	2890.4	2844.7
37.5°	3204.5	3113.1	2884.6	2764.7	2701.9
40°	3078.9	2987.5	2753.3	2621.9	2559.0
42.5°	2947.5	2861.8	2627.6	2467.7	2313.4
45°	2804.7	2724.7	2484.8	2262.0	1970.7
47.5°	2656.2	2587.6	2353.4	2050.7	1770.8
50°	2507.6	2439.1	2210.6	1850.7	1616.5
52.5°	2359.1	2302.0	2050.7	1685.1	1490.9
55°	2193.5	2142.1	1907.9	1525.1	1388.1
57.5°	2045.0	1993.5	1742.2	1393.8	1279.5
60°	1879.3	1833.6	1588.0	1262.4	1176.7
62.5°	1725.1	1673.7	1433.8	1148.1	1085.3
65°	1565.1	1508.0	1285.2	1033.9	993.9
67.5°	1399.5	1342.4	1142.4	931.1	908.2
70°	1233.8	1188.1	999.6	828.3	816.8
72.5°	1062.5	1011.1	856.8	731.2	731.2
75°	891.1	845.4	719.7	622.6	622.6
77.5°	714.0	691.2	576.9	508.4	514.1
80°	559.8	531.2	434.1	388.4	388.4
82.5°	411.3	377.0	291.3	257.0	268.5
85°	257.0	211.3	154.2	131.4	131.4
87.5°	80.0	62.8	45.7	51.4	51.4
90°	11.4	40.0	62.8	80.0	85.7
92.5°	28.6	74.3	91.4	108.5	114.2
95°	45.7	97.1	131.4	137.1	137.1
97.5°	62.8	108.5	159.9	182.8	182.8
100°	85.7	114.2	171.4	205.6	211.3
102.5°	108.5	125.7	182.8	217.1	228.5
105°	131.4	137.1	194.2	228.5	239.9



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CATALOG NUMBER: 8WSLA-150-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.2	171.4	217.1	257.0	268.5
115°	217.1	182.8	228.5	262.8	279.9
117.5°	234.2	199.9	239.9	274.2	285.6
120°	251.3	211.3	245.6	285.6	297.0
122.5°	274.2	222.8	257.0	291.3	308.5
125°	291.3	234.2	262.8	302.7	314.2
127.5°	308.5	257.0	268.5	308.5	319.9
130°	319.9	279.9	274.2	314.2	325.6
132.5°	337.0	297.0	279.9	319.9	331.3
135°	348.4	314.2	291.3	319.9	337.0
137.5°	359.9	331.3	291.3	319.9	331.3
140°	371.3	348.4	297.0	319.9	331.3
142.5°	377.0	359.9	302.7	319.9	331.3
145°	388.4	371.3	325.6	319.9	331.3
147.5°	394.1	382.7	342.7	319.9	331.3
150°	399.9	394.1	359.9	325.6	325.6
152.5°	405.6	399.9	371.3	348.4	337.0
155°	411.3	405.6	382.7	365.6	359.9
157.5°	417.0	417.0	394.1	382.7	377.0
160°	417.0	422.7	405.6	394.1	388.4
162.5°	422.7	428.4	411.3	405.6	399.9
165°	422.7	428.4	417.0	417.0	417.0
167.5°	428.4	434.1	428.4	422.7	422.7
170°	428.4	434.1	428.4	428.4	428.4
172.5°	428.4	434.1	434.1	434.1	434.1
175°	428.4	434.1	434.1	439.8	439.8
177.5°	428.4	434.1	434.1	434.1	434.1
180°	434.1	434.1	434.1	434.1	434.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	154.2	148.5	199.9	239.9	251.3
110°	171.4	159.9	211.3	245.6	257.0



(END OF REPORT)