

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: P520658

Luminaire Tested: **8WSLA-125-L840-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520658
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-125-L840-UPL15-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

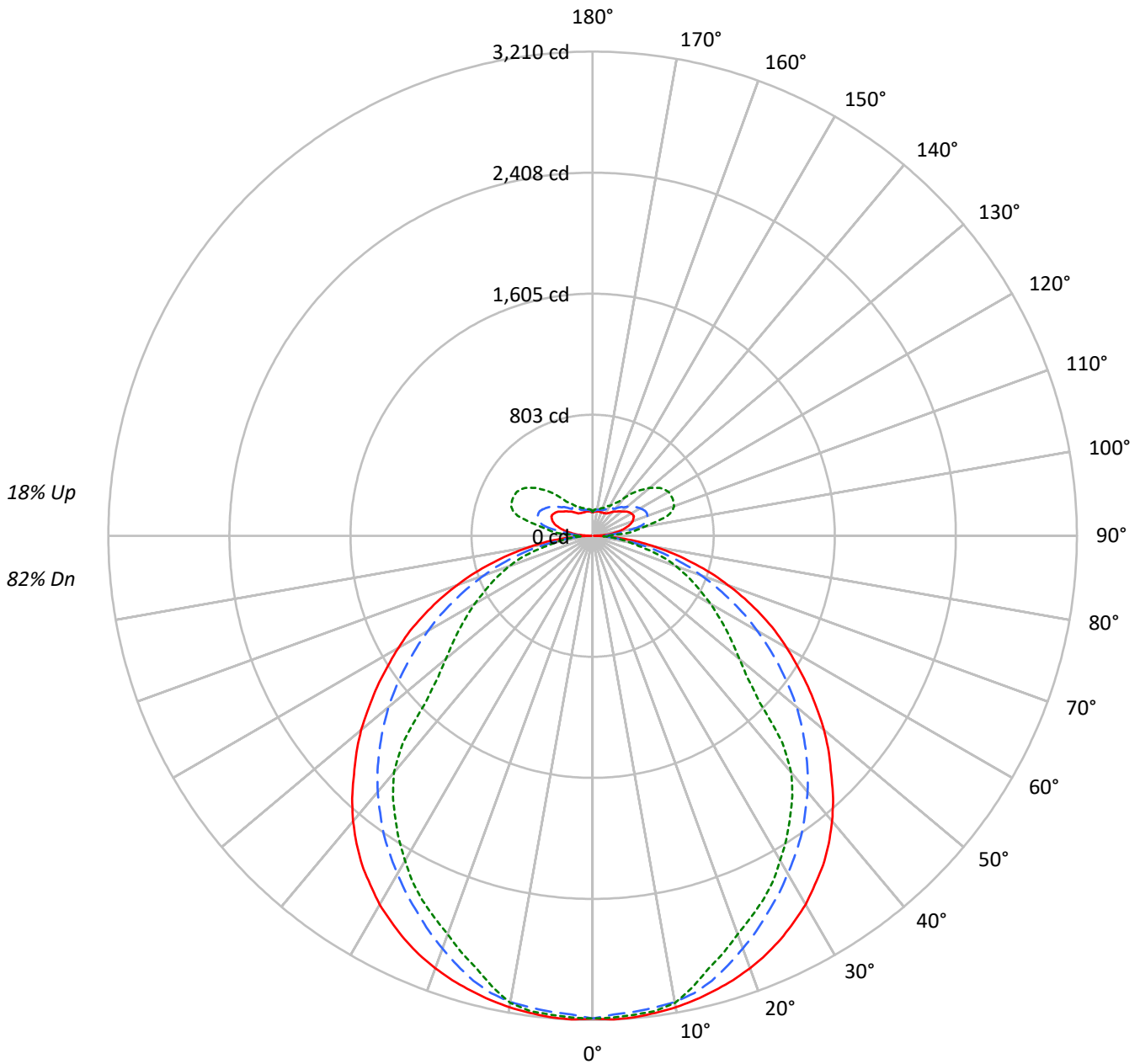
Lumens per Lamp: N/A
Luminaire Lumens: 10364.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 78.2
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°	8611	8611	8611
5°	8653	8557	8609
10°	8673	8576	8593
15°	8698	8508	8273
20°	8737	8337	8049
25°	8760	8172	7921
30°	8774	8038	7725
35°	8753	7932	7495
40°	8676	7787	7194
45°	8510	7596	5966
50°	8383	7392	5313
55°	8177	7096	5055
60°	8000	6777	4856
65°	7812	6406	4712
70°	7508	6001	4622
75°	7087	5500	4251
80°	6488	4627	3772
85°	5811	4008	3807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	2.9
10°-20°	861.5	8.3
20°-30°	1285.8	12.4
30°-40°	1532.0	14.8
40°-50°	1523.8	14.7
50°-60°	1306.0	12.6
60°-70°	983.6	9.5
70°-80°	569.6	5.5
80°-90°	171.2	1.7
90°-100°	183.8	1.8
100°-110°	377.4	3.6
110°-120°	399.1	3.9
120°-130°	333.0	3.2
130°-140°	232.6	2.2
140°-150°	144.8	1.4
150°-160°	89.7	0.9
160°-170°	50.5	0.5
170°-180°	16.3	0.2
0°-30°	2450.6	23.6
0°-40°	3982.6	38.4
0°-60°	6812.4	65.7
0°-90°	8536.8	82.4
90°-120°	960.3	9.3
90°-150°	1670.6	16.1
90°-180°	1827.0	17.6
0°-180°	10364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3200	3200	3200	3200	3200	
5°	3203	3194	3168	3190	3187	305
15°	3122	3119	3054	3002	2970	882
25°	2950	2908	2752	2684	2668	1360
35°	2665	2593	2415	2321	2282	1664
45°	2236	2181	1996	1798	1568	1729
55°	1743	1717	1512	1201	1078	1558
65°	1227	1198	1006	782	740	1213
75°	682	659	529	422	409	722
85°	188	166	130	123	123	201
90°	10	45	78	97	104	19
95°	104	140	159	234	253	99
105°	243	253	364	487	516	252
115°	302	256	386	532	584	294
125°	279	247	334	490	552	248
135°	227	247	269	364	419	177
145°	185	214	234	250	266	117
155°	169	178	192	208	211	78
165°	166	172	178	185	185	47
175°	162	166	169	172	175	15
180°	159	159	159	159	159	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3209.9	3203.4	3177.4	3203.4	3196.9
5°	3203.4	3193.6	3167.7	3190.4	3187.1
7.5°	3190.4	3183.9	3154.7	3180.6	3177.4
10°	3174.2	3164.4	3138.5	3157.9	3144.9
12.5°	3151.4	3144.9	3106.0	3089.8	3063.8
15°	3122.2	3119.0	3054.1	3002.1	2969.7
17.5°	3089.8	3076.8	2985.9	2924.2	2895.0
20°	3050.8	3031.3	2911.3	2839.9	2810.6
22.5°	3005.4	2976.2	2836.6	2768.5	2739.2
25°	2950.2	2908.0	2752.2	2684.1	2667.8
27.5°	2888.5	2839.9	2674.3	2606.2	2586.7
30°	2823.6	2762.0	2586.7	2521.8	2486.1
32.5°	2742.5	2684.1	2502.3	2427.7	2388.7
35°	2664.6	2593.2	2414.7	2320.6	2281.6
37.5°	2570.5	2499.1	2314.1	2220.0	2174.5
40°	2469.9	2398.5	2216.7	2106.4	2047.9
42.5°	2359.5	2294.6	2109.6	1976.5	1862.9
45°	2236.2	2181.0	1996.0	1798.0	1567.6
47.5°	2122.6	2070.7	1882.4	1626.0	1389.1
50°	2002.5	1953.8	1765.6	1463.7	1269.0
52.5°	1869.4	1833.7	1639.0	1324.2	1168.4
55°	1742.9	1716.9	1512.4	1200.9	1077.5
57.5°	1609.8	1583.8	1385.9	1084.0	986.6
60°	1486.5	1460.5	1259.3	980.2	902.3
62.5°	1363.1	1327.4	1135.9	879.5	814.6
65°	1226.8	1197.6	1006.1	782.2	740.0
67.5°	1090.5	1064.5	886.0	691.3	662.1
70°	954.2	931.5	762.7	603.7	587.4
72.5°	821.1	791.9	652.4	516.0	509.6
75°	681.6	658.8	529.0	421.9	408.9
77.5°	548.5	529.0	415.4	321.3	311.6
80°	418.7	399.2	298.6	233.7	243.4
82.5°	308.3	282.4	201.2	181.8	191.5
85°	188.2	165.5	129.8	123.3	123.3
87.5°	64.9	61.7	58.4	68.2	71.4
90°	9.7	45.4	77.9	97.4	103.9
92.5°	55.2	81.1	107.1	126.6	133.1
95°	103.9	139.6	159.0	233.7	253.2
97.5°	142.8	185.0	207.7	275.9	295.3
100°	181.8	220.7	292.1	327.8	350.5
102.5°	214.2	243.4	344.0	415.4	428.4
105°	243.4	253.2	363.5	486.8	516.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	292.1	259.6	389.5	529.0	581.0
115°	301.8	256.4	386.2	532.3	584.2
117.5°	301.8	256.4	376.5	532.3	584.2
120°	295.3	259.6	363.5	525.8	581.0
122.5°	288.9	253.2	350.5	512.8	568.0
125°	279.1	246.7	334.3	490.1	551.7
127.5°	262.9	253.2	318.1	460.9	522.5
130°	249.9	256.4	298.6	431.7	493.3
132.5°	240.2	249.9	279.1	399.2	454.4
135°	227.2	246.7	269.4	363.5	418.7
137.5°	217.5	236.9	253.2	331.0	376.5
140°	207.7	230.4	236.9	288.9	327.8
142.5°	194.7	220.7	223.9	269.4	285.6
145°	185.0	214.2	233.7	249.9	266.1
147.5°	175.3	201.2	227.2	230.4	246.7
150°	172.0	188.2	217.5	220.7	227.2
152.5°	168.8	181.8	201.2	220.7	223.9
155°	168.8	178.5	191.5	207.7	211.0
157.5°	165.5	178.5	185.0	198.0	201.2
160°	165.5	175.3	181.8	191.5	194.7
162.5°	165.5	175.3	178.5	188.2	191.5
165°	165.5	172.0	178.5	185.0	185.0
167.5°	165.5	172.0	175.3	181.8	181.8
170°	165.5	168.8	175.3	178.5	178.5
172.5°	162.3	168.8	172.0	178.5	178.5
175°	162.3	165.5	168.8	172.0	175.3
177.5°	155.8	165.5	168.8	172.0	168.8
180°	159.0	159.0	159.0	159.0	159.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	266.1	256.4	376.5	512.8	555.0
110°	282.4	259.6	386.2	522.5	574.5



(END OF REPORT)