

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: P520752

Luminaire Tested: **8WSLA-50-L835-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520752
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-50-L835-UPL8-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

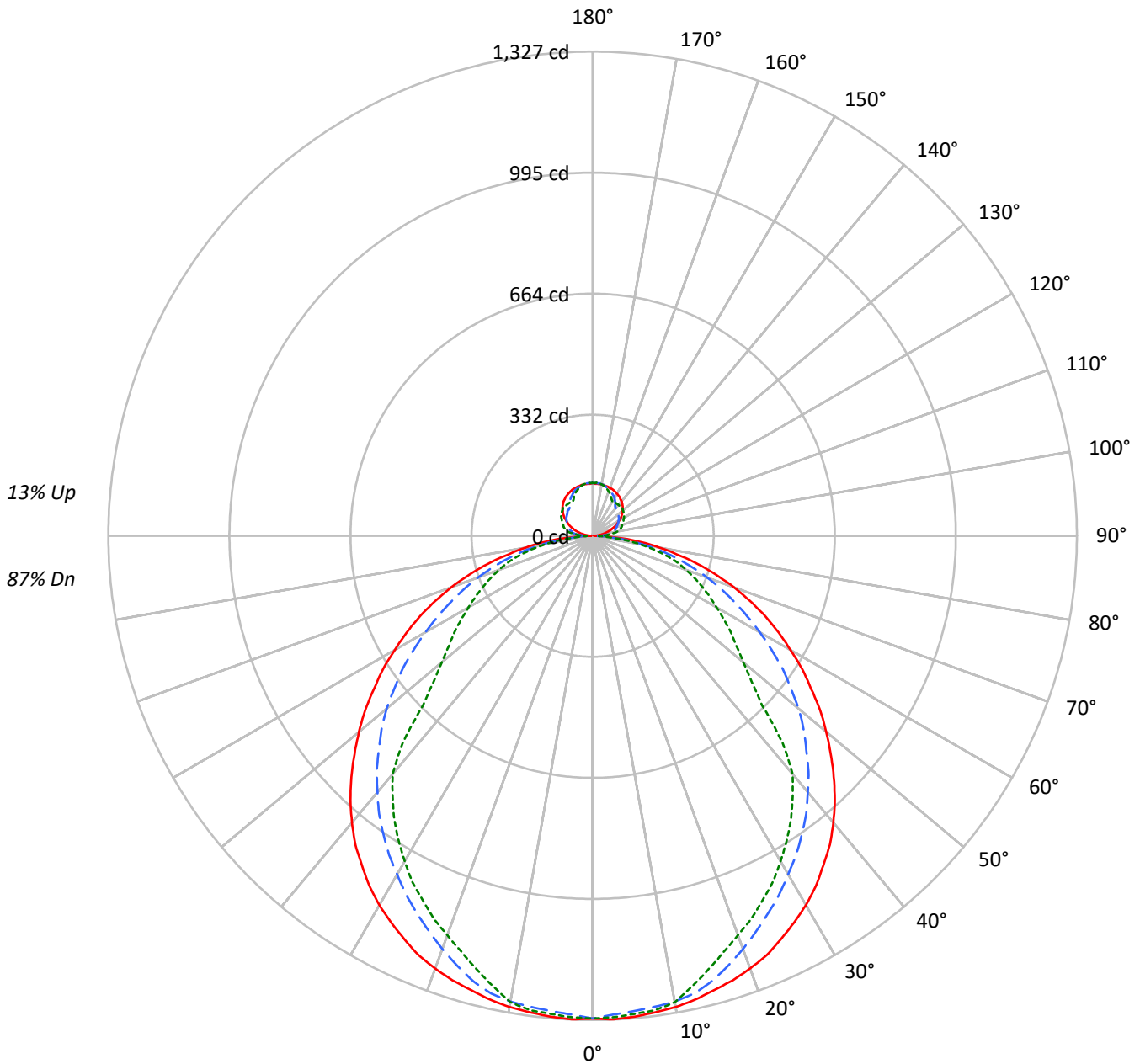
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4117.0 lumens
Efficiency: N/A
Efficacy: 135.0 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): 30.5
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°	3560	3560	3560
5°	3573	3532	3553
10°	3584	3542	3547
15°	3590	3521	3426
20°	3614	3450	3336
25°	3623	3385	3272
30°	3631	3330	3200
35°	3620	3283	3114
40°	3604	3223	2995
45°	3557	3151	2499
50°	3498	3084	2255
55°	3429	2982	2170
60°	3370	2848	2110
65°	3321	2727	2109
70°	3234	2621	2142
75°	3087	2493	2157
80°	2890	2242	2005
85°	2646	1587	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.0
10°-20°	356.0	8.6
20°-30°	532.0	12.9
30°-40°	635.1	15.4
40°-50°	635.1	15.4
50°-60°	549.7	13.4
60°-70°	421.9	10.2
70°-80°	258.5	6.3
80°-90°	72.8	1.8
90°-100°	41.1	1.0
100°-110°	65.3	1.6
110°-120°	76.3	1.9
120°-130°	82.4	2.0
130°-140°	81.2	2.0
140°-150°	71.8	1.7
150°-160°	59.1	1.4
160°-170°	39.6	1.0
170°-180°	13.8	0.3
0°-30°	1013.3	24.6
0°-40°	1648.4	40.0
0°-60°	2833.2	68.8
0°-90°	3586.3	87.1
90°-120°	182.7	4.4
90°-150°	418.2	10.2
90°-180°	531.0	12.9
0°-180°	4117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1323	1319	1308	1317	1315	126
15°	1289	1287	1264	1241	1230	365
25°	1220	1205	1140	1110	1102	563
35°	1102	1074	999	963	948	690
45°	935	908	828	754	657	721
55°	731	714	636	508	462	655
65°	522	502	428	344	331	515
75°	297	282	240	208	208	313
85°	86	70	51	44	44	90
90°	4	13	21	27	29	6
95°	15	32	44	46	46	15
105°	44	46	65	76	80	46
115°	72	61	76	88	93	71
125°	97	78	88	101	105	86
135°	116	105	97	107	112	90
145°	129	124	108	107	110	81
155°	137	135	128	122	120	63
165°	141	143	139	139	139	40
175°	143	145	145	147	147	14
180°	145	145	145	145	145	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.9	1322.9	1322.9	1322.9	1322.9
2.5°	1326.7	1322.9	1313.4	1322.9	1321.0
5°	1322.9	1319.1	1307.7	1317.2	1315.3
7.5°	1317.2	1313.4	1302.0	1313.4	1311.5
10°	1311.5	1307.7	1296.2	1303.9	1298.1
12.5°	1302.0	1298.1	1284.8	1275.3	1263.9
15°	1288.6	1286.7	1263.9	1241.0	1229.6
17.5°	1277.2	1271.5	1235.3	1208.7	1195.4
20°	1262.0	1252.5	1204.9	1174.4	1164.9
22.5°	1244.8	1229.6	1172.5	1144.0	1136.4
25°	1220.1	1204.9	1140.2	1109.7	1102.1
27.5°	1195.4	1176.3	1107.8	1077.3	1069.7
30°	1168.7	1142.1	1071.6	1043.1	1029.8
32.5°	1138.3	1111.6	1037.4	1005.0	989.8
35°	1102.1	1073.5	999.3	963.1	947.9
37.5°	1067.8	1037.4	961.2	921.3	900.3
40°	1026.0	995.5	917.5	873.7	852.7
42.5°	982.2	953.6	875.6	822.3	770.9
45°	934.6	907.9	828.0	753.8	656.7
47.5°	885.1	862.3	784.2	683.3	590.1
50°	835.6	812.8	736.6	616.7	538.7
52.5°	786.1	767.1	683.3	561.5	496.8
55°	730.9	713.8	635.7	508.2	462.5
57.5°	681.4	664.3	580.5	464.4	426.4
60°	626.2	611.0	529.2	420.7	392.1
62.5°	574.8	557.7	477.8	382.6	361.7
65°	521.5	502.5	428.3	344.5	331.2
67.5°	466.3	447.3	380.7	310.3	302.6
70°	411.1	395.9	333.1	276.0	272.2
72.5°	354.0	336.9	285.5	243.6	243.6
75°	296.9	281.7	239.8	207.5	207.5
77.5°	237.9	230.3	192.2	169.4	171.3
80°	186.5	177.0	144.7	129.4	129.4
82.5°	137.0	125.6	97.1	85.7	89.5
85°	85.7	70.4	51.4	43.8	43.8
87.5°	26.6	20.9	15.2	17.1	17.1
90°	3.8	13.3	20.9	26.6	28.6
92.5°	9.5	24.7	30.5	36.2	38.1
95°	15.2	32.4	43.8	45.7	45.7
97.5°	20.9	36.2	53.3	60.9	60.9
100°	28.6	38.1	57.1	68.5	70.4
102.5°	36.2	41.9	60.9	72.3	76.1
105°	43.8	45.7	64.7	76.1	79.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.7	57.1	72.3	85.7	89.5
115°	72.3	60.9	76.1	87.6	93.3
117.5°	78.0	66.6	79.9	91.4	95.2
120°	83.8	70.4	81.8	95.2	99.0
122.5°	91.4	74.2	85.7	97.1	102.8
125°	97.1	78.0	87.6	100.9	104.7
127.5°	102.8	85.7	89.5	102.8	106.6
130°	106.6	93.3	91.4	104.7	108.5
132.5°	112.3	99.0	93.3	106.6	110.4
135°	116.1	104.7	97.1	106.6	112.3
137.5°	119.9	110.4	97.1	106.6	110.4
140°	123.7	116.1	99.0	106.6	110.4
142.5°	125.6	119.9	100.9	106.6	110.4
145°	129.4	123.7	108.5	106.6	110.4
147.5°	131.3	127.5	114.2	106.6	110.4
150°	133.2	131.3	119.9	108.5	108.5
152.5°	135.1	133.2	123.7	116.1	112.3
155°	137.0	135.1	127.5	121.8	119.9
157.5°	139.0	139.0	131.3	127.5	125.6
160°	139.0	140.9	135.1	131.3	129.4
162.5°	140.9	142.8	137.0	135.1	133.2
165°	140.9	142.8	139.0	139.0	139.0
167.5°	142.8	144.7	142.8	140.9	140.9
170°	142.8	144.7	142.8	142.8	142.8
172.5°	142.8	144.7	144.7	144.7	144.7
175°	142.8	144.7	144.7	146.6	146.6
177.5°	142.8	144.7	144.7	144.7	144.7
180°	144.7	144.7	144.7	144.7	144.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	51.4	49.5	66.6	79.9	83.8
110°	57.1	53.3	70.4	81.8	85.7



(END OF REPORT)