

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: P520728

Luminaire Tested: **8WSLA-200-L835-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520728
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-200-L835-UPL8-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

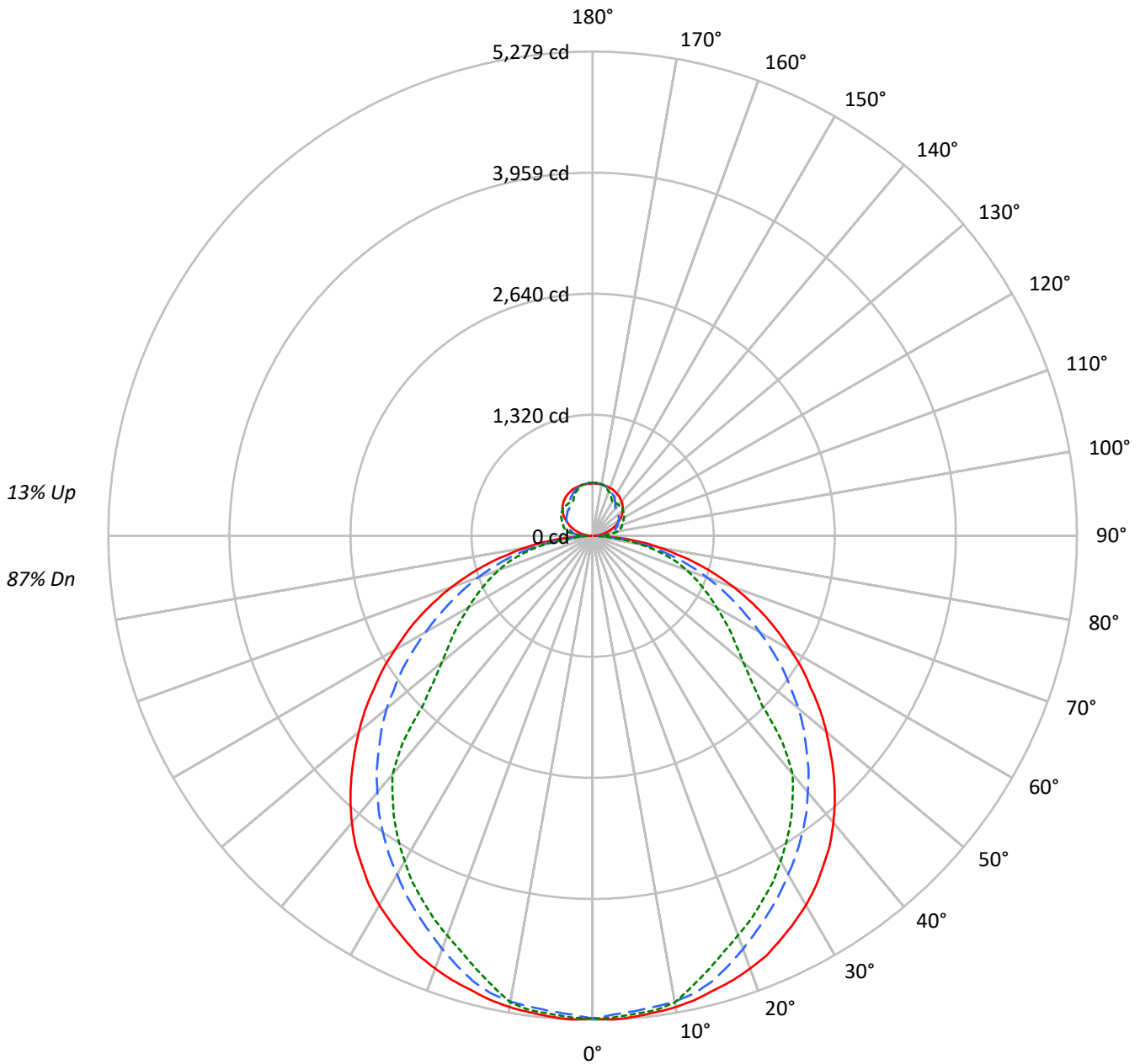
Lumens per Lamp: N/A
Luminaire Lumens: 16381.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
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°	14164	14164	14164
5°	14218	14055	14136
10°	14259	14093	14114
15°	14284	14010	13630
20°	14379	13728	13273
25°	14414	13470	13020
30°	14449	13249	12731
35°	14405	13062	12390
40°	14340	12823	11919
45°	14152	12538	9944
50°	13919	12270	8973
55°	13644	11868	8634
60°	13410	11331	8396
65°	13213	10850	8391
70°	12871	10428	8521
75°	12284	9922	8583
80°	11502	8920	7981
85°	10522	6314	5379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.3	3.0
10°-20°	1416.7	8.6
20°-30°	2116.8	12.9
30°-40°	2526.8	15.4
40°-50°	2527.1	15.4
50°-60°	2187.1	13.4
60°-70°	1678.7	10.2
70°-80°	1028.6	6.3
80°-90°	289.6	1.8
90°-100°	163.7	1.0
100°-110°	259.8	1.6
110°-120°	303.7	1.9
120°-130°	327.9	2.0
130°-140°	323.1	2.0
140°-150°	285.8	1.7
150°-160°	235.2	1.4
160°-170°	157.4	1.0
170°-180°	54.8	0.3
0°-30°	4031.8	24.6
0°-40°	6558.6	40.0
0°-60°	11272.7	68.8
0°-90°	14269.6	87.1
90°-120°	727.2	4.4
90°-150°	1663.9	10.2
90°-180°	2111.0	12.9
0°-180°	16381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5264	5264	5264	5264	5264	
5°	5264	5248	5203	5241	5233	501
15°	5127	5120	5029	4938	4892	1451
25°	4855	4794	4536	4415	4385	2240
35°	4385	4272	3976	3832	3772	2746
45°	3719	3613	3294	2999	2613	2867
55°	2908	2840	2530	2022	1840	2607
65°	2075	1999	1704	1371	1318	2050
75°	1182	1121	954	826	826	1246
85°	341	280	204	174	174	356
90°	15	53	83	106	114	24
95°	61	129	174	182	182	60
105°	174	182	258	303	318	183
115°	288	242	303	348	371	281
125°	386	310	348	401	416	344
135°	462	416	386	424	447	356
145°	515	492	432	424	439	321
155°	545	538	507	485	477	252
165°	560	568	553	553	553	159
175°	568	576	576	583	583	54
180°	576	576	576	576	576	



TEST NUMBER: P520728

CATALOG NUMBER: 8WSLA-200-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5263.6	5263.6	5263.6	5263.6	5263.6
2.5°	5278.7	5263.6	5225.7	5263.6	5256.0
5°	5263.6	5248.5	5203.0	5240.9	5233.3
7.5°	5240.9	5225.7	5180.3	5225.7	5218.2
10°	5218.2	5203.0	5157.6	5187.9	5165.1
12.5°	5180.3	5165.1	5112.1	5074.3	5028.8
15°	5127.3	5119.7	5028.8	4937.9	4892.5
17.5°	5081.8	5059.1	4915.2	4809.2	4756.2
20°	5021.2	4983.4	4794.0	4672.9	4635.0
22.5°	4953.1	4892.5	4665.3	4551.7	4521.4
25°	4854.6	4794.0	4536.5	4415.4	4385.1
27.5°	4756.2	4680.4	4407.8	4286.6	4256.3
30°	4650.1	4544.1	4263.9	4150.3	4097.3
32.5°	4529.0	4422.9	4127.6	3998.8	3938.2
35°	4385.1	4271.5	3976.1	3832.2	3771.6
37.5°	4248.7	4127.6	3824.6	3665.6	3582.3
40°	4082.1	3961.0	3650.4	3476.2	3392.9
42.5°	3907.9	3794.3	3483.8	3271.8	3067.3
45°	3718.6	3612.6	3294.5	2999.1	2612.9
47.5°	3521.7	3430.8	3120.3	2718.9	2347.8
50°	3324.8	3233.9	2931.0	2453.8	2143.3
52.5°	3127.9	3052.1	2718.9	2234.2	1976.7
55°	2908.2	2840.1	2529.6	2022.1	1840.4
57.5°	2711.3	2643.2	2309.9	1847.9	1696.5
60°	2491.7	2431.1	2105.4	1673.7	1560.1
62.5°	2287.2	2219.0	1901.0	1522.3	1439.0
65°	2075.1	1999.4	1704.0	1370.8	1317.8
67.5°	1855.5	1779.8	1514.7	1234.5	1204.2
70°	1635.9	1575.3	1325.4	1098.2	1083.0
72.5°	1408.7	1340.5	1136.0	969.4	969.4
75°	1181.5	1120.9	954.3	825.5	825.5
77.5°	946.7	916.4	764.9	674.0	681.6
80°	742.2	704.3	575.6	515.0	515.0
82.5°	545.3	499.9	386.2	340.8	356.0
85°	340.8	280.2	204.5	174.2	174.2
87.5°	106.0	83.3	60.6	68.2	68.2
90°	15.1	53.0	83.3	106.0	113.6
92.5°	37.9	98.5	121.2	143.9	151.5
95°	60.6	128.7	174.2	181.8	181.8
97.5°	83.3	143.9	212.1	242.4	242.4
100°	113.6	151.5	227.2	272.6	280.2
102.5°	143.9	166.6	242.4	287.8	302.9
105°	174.2	181.8	257.5	302.9	318.1



TEST NUMBER: P520728

CATALOG NUMBER: 8WSLA-200-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	257.5	227.2	287.8	340.8	356.0
115°	287.8	242.4	302.9	348.4	371.1
117.5°	310.5	265.1	318.1	363.5	378.7
120°	333.2	280.2	325.7	378.7	393.8
122.5°	363.5	295.4	340.8	386.2	409.0
125°	386.2	310.5	348.4	401.4	416.5
127.5°	409.0	340.8	356.0	409.0	424.1
130°	424.1	371.1	363.5	416.5	431.7
132.5°	446.8	393.8	371.1	424.1	439.3
135°	462.0	416.5	386.2	424.1	446.8
137.5°	477.1	439.3	386.2	424.1	439.3
140°	492.3	462.0	393.8	424.1	439.3
142.5°	499.9	477.1	401.4	424.1	439.3
145°	515.0	492.3	431.7	424.1	439.3
147.5°	522.6	507.4	454.4	424.1	439.3
150°	530.1	522.6	477.1	431.7	431.7
152.5°	537.7	530.1	492.3	462.0	446.8
155°	545.3	537.7	507.4	484.7	477.1
157.5°	552.9	552.9	522.6	507.4	499.9
160°	552.9	560.4	537.7	522.6	515.0
162.5°	560.4	568.0	545.3	537.7	530.1
165°	560.4	568.0	552.9	552.9	552.9
167.5°	568.0	575.6	568.0	560.4	560.4
170°	568.0	575.6	568.0	568.0	568.0
172.5°	568.0	575.6	575.6	575.6	575.6
175°	568.0	575.6	575.6	583.2	583.2
177.5°	568.0	575.6	575.6	575.6	575.6
180°	575.6	575.6	575.6	575.6	575.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	204.5	196.9	265.1	318.1	333.2
110°	227.2	212.1	280.2	325.7	340.8



(END OF REPORT)