

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: P520563

Luminaire Tested: **4WSLA-200-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520563
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: 4WSLA-200-L840-UPL8-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

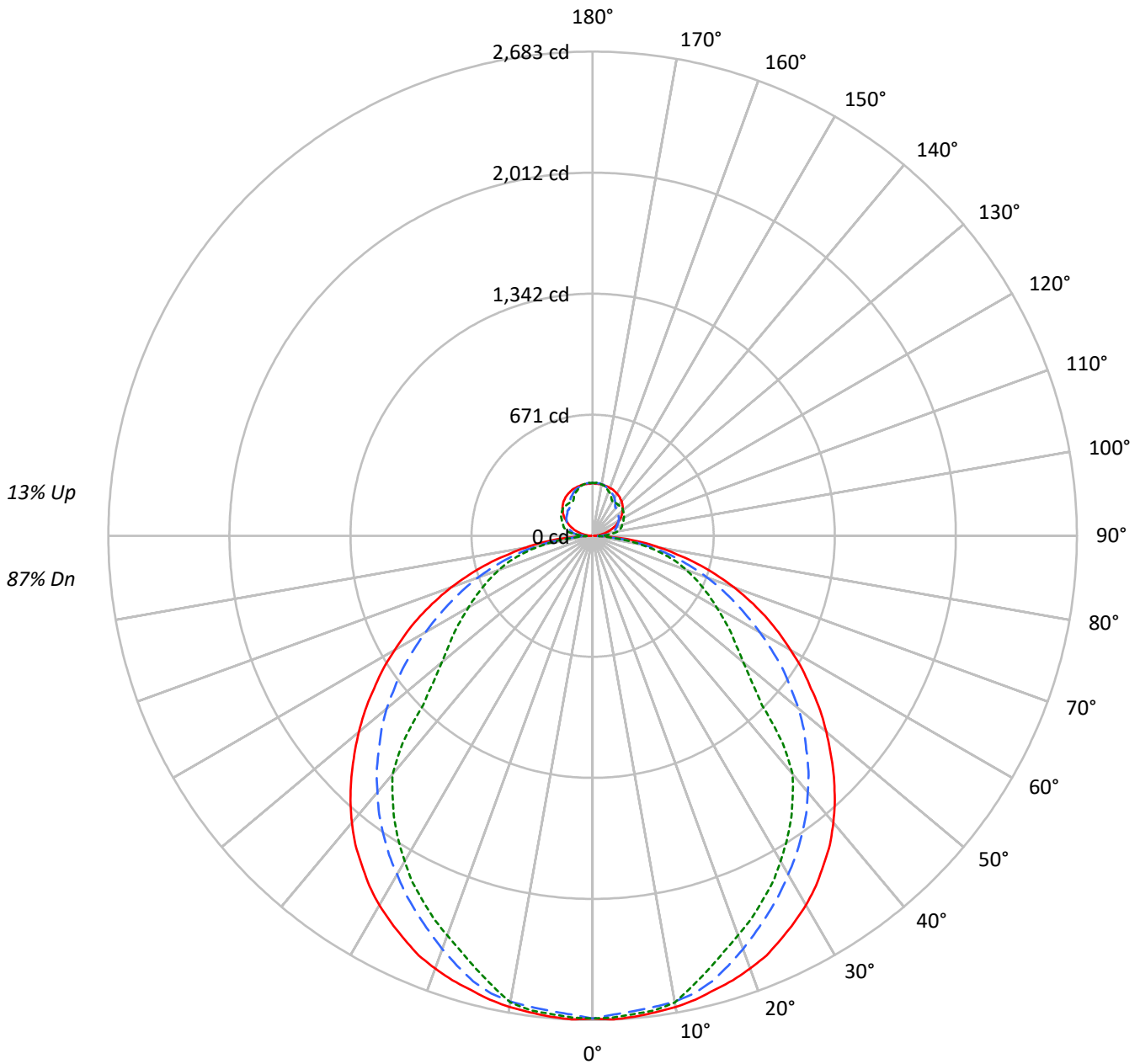
Lumens per Lamp: N/A
Luminaire Lumens: 8325.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.3
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				20				20	
RC	80				70				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				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14397	14397	14397
5°	14452	14285	14369
10°	14493	14324	14346
15°	14518	14240	13854
20°	14616	13954	13491
25°	14651	13691	13234
30°	14687	13467	12941
35°	14642	13276	12594
40°	14575	13034	12114
45°	14384	12743	10107
50°	14148	12471	9121
55°	13868	12062	8776
60°	13630	11517	8535
65°	13430	11028	8528
70°	13083	10600	8661
75°	12485	10085	8723
80°	11691	9066	8111
85°	10695	6416	5465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	3.0
10°-20°	720.0	8.6
20°-30°	1075.8	12.9
30°-40°	1284.2	15.4
40°-50°	1284.3	15.4
50°-60°	1111.5	13.4
60°-70°	853.1	10.2
70°-80°	522.7	6.3
80°-90°	147.1	1.8
90°-100°	83.2	1.0
100°-110°	132.0	1.6
110°-120°	154.4	1.9
120°-130°	166.6	2.0
130°-140°	164.2	2.0
140°-150°	145.2	1.7
150°-160°	119.5	1.4
160°-170°	80.0	1.0
170°-180°	27.9	0.3
0°-30°	2049.0	24.6
0°-40°	3333.2	40.0
0°-60°	5728.9	68.8
0°-90°	7252.0	87.1
90°-120°	369.6	4.4
90°-150°	845.6	10.2
90°-180°	1073.0	12.9
0°-180°	8325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2675	2675	2675	2675	2675	
5°	2675	2667	2644	2664	2660	255
15°	2606	2602	2556	2510	2486	737
25°	2467	2436	2306	2244	2228	1138
35°	2228	2171	2021	1948	1917	1396
45°	1890	1836	1674	1524	1328	1457
55°	1478	1443	1286	1028	935	1325
65°	1055	1016	866	697	670	1042
75°	600	570	485	420	420	633
85°	173	142	104	88	88	181
90°	8	27	42	54	58	12
95°	31	65	88	92	92	30
105°	88	92	131	154	162	93
115°	146	123	154	177	189	143
125°	196	158	177	204	212	175
135°	235	212	196	216	227	181
145°	262	250	219	216	223	163
155°	277	273	258	246	242	128
165°	285	289	281	281	281	81
175°	289	292	292	296	296	28
180°	292	292	292	292	292	



TEST NUMBER: P520563

CATALOG NUMBER: 4WSLA-200-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2675.0	2675.0	2675.0	2675.0	2675.0
2.5°	2682.7	2675.0	2655.8	2675.0	2671.2
5°	2675.0	2667.3	2644.2	2663.5	2659.6
7.5°	2663.5	2655.8	2632.7	2655.8	2651.9
10°	2651.9	2644.2	2621.1	2636.5	2625.0
12.5°	2632.7	2625.0	2598.0	2578.8	2555.7
15°	2605.7	2601.9	2555.7	2509.5	2486.4
17.5°	2582.6	2571.1	2498.0	2444.1	2417.1
20°	2551.9	2532.6	2436.4	2374.8	2355.6
22.5°	2517.2	2486.4	2371.0	2313.2	2297.8
25°	2467.2	2436.4	2305.5	2243.9	2228.5
27.5°	2417.1	2378.6	2240.1	2178.5	2163.1
30°	2363.3	2309.4	2167.0	2109.2	2082.3
32.5°	2301.7	2247.8	2097.7	2032.2	2001.5
35°	2228.5	2170.8	2020.7	1947.6	1916.8
37.5°	2159.3	2097.7	1943.7	1862.9	1820.6
40°	2074.6	2013.0	1855.2	1766.7	1724.3
42.5°	1986.1	1928.3	1770.5	1662.7	1558.8
45°	1889.8	1835.9	1674.3	1524.2	1327.9
47.5°	1789.8	1743.6	1585.8	1381.8	1193.2
50°	1689.7	1643.5	1489.5	1247.1	1089.3
52.5°	1589.6	1551.1	1381.8	1135.4	1004.6
55°	1478.0	1443.4	1285.5	1027.7	935.3
57.5°	1377.9	1343.3	1173.9	939.1	862.2
60°	1266.3	1235.5	1070.0	850.6	792.9
62.5°	1162.4	1127.7	966.1	773.6	731.3
65°	1054.6	1016.1	866.0	696.7	669.7
67.5°	943.0	904.5	769.8	627.4	612.0
70°	831.4	800.6	673.6	558.1	550.4
72.5°	715.9	681.3	577.3	492.7	492.7
75°	600.4	569.6	485.0	419.5	419.5
77.5°	481.1	465.7	388.7	342.6	346.4
80°	377.2	358.0	292.5	261.7	261.7
82.5°	277.1	254.0	196.3	173.2	180.9
85°	173.2	142.4	103.9	88.5	88.5
87.5°	53.9	42.3	30.8	34.6	34.6
90°	7.7	26.9	42.3	53.9	57.7
92.5°	19.2	50.0	61.6	73.1	77.0
95°	30.8	65.4	88.5	92.4	92.4
97.5°	42.3	73.1	107.8	123.2	123.2
100°	57.7	77.0	115.5	138.6	142.4
102.5°	73.1	84.7	123.2	146.3	154.0
105°	88.5	92.4	130.9	154.0	161.7



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CATALOG NUMBER: 4WSLA-200-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.9	115.5	146.3	173.2	180.9
115°	146.3	123.2	154.0	177.1	188.6
117.5°	157.8	134.7	161.7	184.7	192.4
120°	169.4	142.4	165.5	192.4	200.1
122.5°	184.7	150.1	173.2	196.3	207.8
125°	196.3	157.8	177.1	204.0	211.7
127.5°	207.8	173.2	180.9	207.8	215.5
130°	215.5	188.6	184.7	211.7	219.4
132.5°	227.1	200.1	188.6	215.5	223.2
135°	234.8	211.7	196.3	215.5	227.1
137.5°	242.5	223.2	196.3	215.5	223.2
140°	250.2	234.8	200.1	215.5	223.2
142.5°	254.0	242.5	204.0	215.5	223.2
145°	261.7	250.2	219.4	215.5	223.2
147.5°	265.6	257.9	230.9	215.5	223.2
150°	269.4	265.6	242.5	219.4	219.4
152.5°	273.3	269.4	250.2	234.8	227.1
155°	277.1	273.3	257.9	246.3	242.5
157.5°	281.0	281.0	265.6	257.9	254.0
160°	281.0	284.8	273.3	265.6	261.7
162.5°	284.8	288.7	277.1	273.3	269.4
165°	284.8	288.7	281.0	281.0	281.0
167.5°	288.7	292.5	288.7	284.8	284.8
170°	288.7	292.5	288.7	288.7	288.7
172.5°	288.7	292.5	292.5	292.5	292.5
175°	288.7	292.5	292.5	296.4	296.4
177.5°	288.7	292.5	292.5	292.5	292.5
180°	292.5	292.5	292.5	292.5	292.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	103.9	100.1	134.7	161.7	169.4
110°	115.5	107.8	142.4	165.5	173.2



(END OF REPORT)