

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: P520599

Luminaire Tested: **4WSLA-50-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520599
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-50-L940-UPL8-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

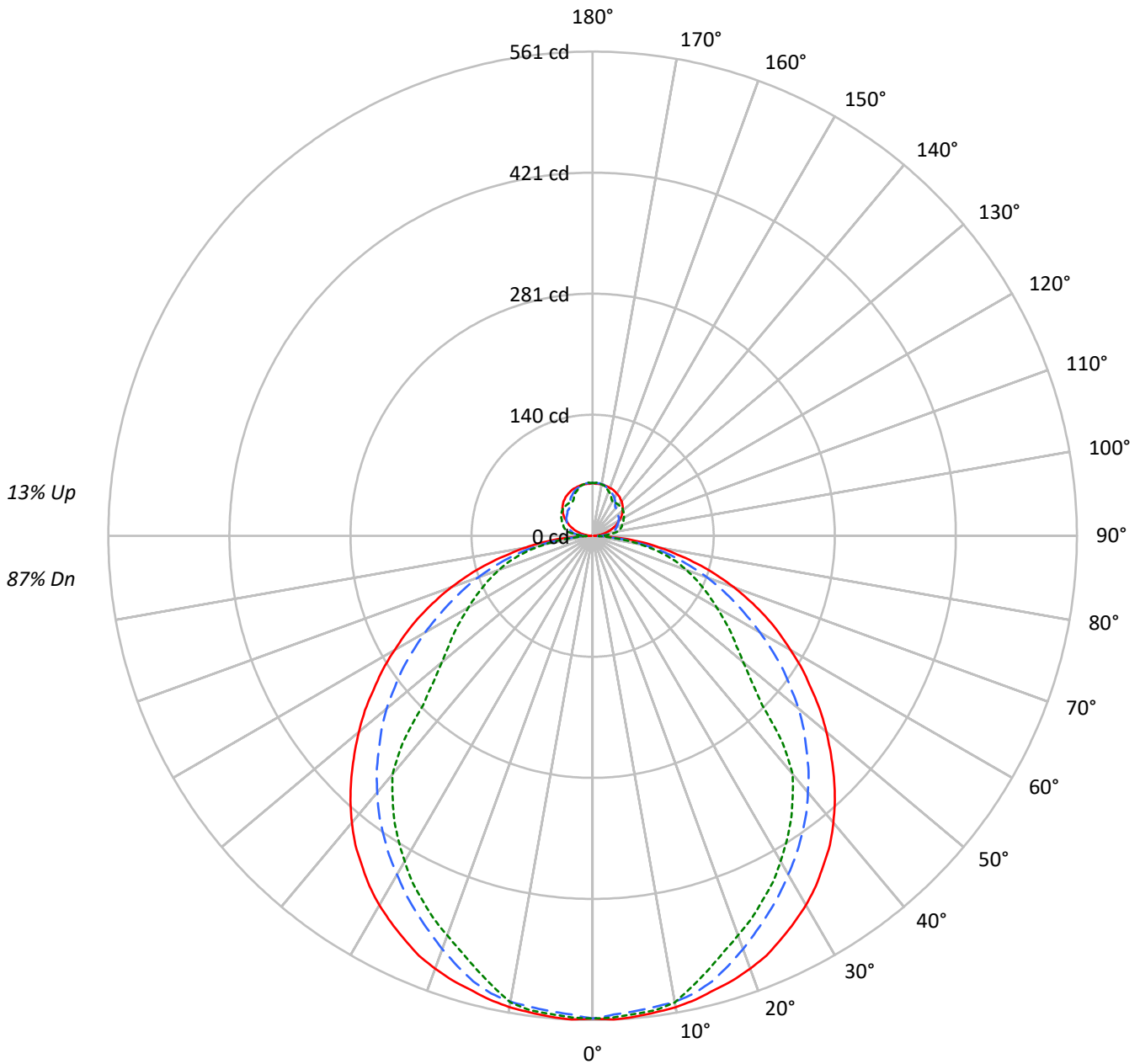
Lumens per Lamp: N/A
Luminaire Lumens: 1741.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 15.6
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°	3011	3011	3011
5°	3022	2988	3005
10°	3031	2996	3000
15°	3036	2978	2897
20°	3057	2918	2821
25°	3064	2863	2768
30°	3071	2816	2706
35°	3062	2777	2634
40°	3048	2726	2533
45°	3008	2665	2114
50°	2959	2608	1907
55°	2900	2522	1835
60°	2850	2409	1785
65°	2809	2306	1784
70°	2736	2217	1811
75°	2612	2109	1824
80°	2445	1897	1695
85°	2235	1340	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	3.0
10°-20°	150.6	8.6
20°-30°	225.0	12.9
30°-40°	268.6	15.4
40°-50°	268.6	15.4
50°-60°	232.4	13.4
60°-70°	178.4	10.2
70°-80°	109.3	6.3
80°-90°	30.8	1.8
90°-100°	17.4	1.0
100°-110°	27.6	1.6
110°-120°	32.3	1.9
120°-130°	34.9	2.0
130°-140°	34.3	2.0
140°-150°	30.4	1.7
150°-160°	25.0	1.4
160°-170°	16.7	1.0
170°-180°	5.8	0.3
0°-30°	428.5	24.6
0°-40°	697.1	40.0
0°-60°	1198.1	68.8
0°-90°	1516.6	87.1
90°-120°	77.3	4.4
90°-150°	176.9	10.2
90°-180°	224.0	12.9
0°-180°	1741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	559	558	553	557	556	53
15°	545	544	534	525	520	154
25°	516	510	482	469	466	238
35°	466	454	423	407	401	292
45°	395	384	350	319	278	305
55°	309	302	269	215	196	277
65°	221	212	181	146	140	218
75°	126	119	101	88	88	132
85°	36	30	22	18	18	38
90°	2	6	9	11	12	3
95°	6	14	18	19	19	6
105°	18	19	27	32	34	19
115°	31	26	32	37	39	30
125°	41	33	37	43	44	37
135°	49	44	41	45	48	38
145°	55	52	46	45	47	34
155°	58	57	54	52	51	27
165°	60	60	59	59	59	17
175°	60	61	61	62	62	6
180°	61	61	61	61	61	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.4	559.4	559.4	559.4	559.4
2.5°	561.0	559.4	555.4	559.4	558.6
5°	559.4	557.8	553.0	557.0	556.2
7.5°	557.0	555.4	550.6	555.4	554.6
10°	554.6	553.0	548.2	551.4	549.0
12.5°	550.6	549.0	543.3	539.3	534.5
15°	544.9	544.1	534.5	524.8	520.0
17.5°	540.1	537.7	522.4	511.1	505.5
20°	533.7	529.6	509.5	496.6	492.6
22.5°	526.4	520.0	495.8	483.8	480.5
25°	516.0	509.5	482.2	469.3	466.1
27.5°	505.5	497.4	468.5	455.6	452.4
30°	494.2	483.0	453.2	441.1	435.5
32.5°	481.3	470.1	438.7	425.0	418.6
35°	466.1	454.0	422.6	407.3	400.9
37.5°	451.6	438.7	406.5	389.6	380.7
40°	433.9	421.0	388.0	369.5	360.6
42.5°	415.3	403.3	370.3	347.7	326.0
45°	395.2	384.0	350.1	318.8	277.7
47.5°	374.3	364.6	331.6	289.0	249.5
50°	353.4	343.7	311.5	260.8	227.8
52.5°	332.4	324.4	289.0	237.5	210.1
55°	309.1	301.8	268.8	214.9	195.6
57.5°	288.2	280.9	245.5	196.4	180.3
60°	264.8	258.4	223.8	177.9	165.8
62.5°	243.1	235.8	202.0	161.8	152.9
65°	220.6	212.5	181.1	145.7	140.1
67.5°	197.2	189.2	161.0	131.2	128.0
70°	173.9	167.4	140.9	116.7	115.1
72.5°	149.7	142.5	120.7	103.0	103.0
75°	125.6	119.1	101.4	87.7	87.7
77.5°	100.6	97.4	81.3	71.6	72.4
80°	78.9	74.9	61.2	54.7	54.7
82.5°	58.0	53.1	41.1	36.2	37.8
85°	36.2	29.8	21.7	18.5	18.5
87.5°	11.3	8.9	6.4	7.2	7.2
90°	1.6	5.6	8.9	11.3	12.1
92.5°	4.0	10.5	12.9	15.3	16.1
95°	6.4	13.7	18.5	19.3	19.3
97.5°	8.9	15.3	22.5	25.8	25.8
100°	12.1	16.1	24.1	29.0	29.8
102.5°	15.3	17.7	25.8	30.6	32.2
105°	18.5	19.3	27.4	32.2	33.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.4	24.1	30.6	36.2	37.8
115°	30.6	25.8	32.2	37.0	39.4
117.5°	33.0	28.2	33.8	38.6	40.2
120°	35.4	29.8	34.6	40.2	41.9
122.5°	38.6	31.4	36.2	41.1	43.5
125°	41.1	33.0	37.0	42.7	44.3
127.5°	43.5	36.2	37.8	43.5	45.1
130°	45.1	39.4	38.6	44.3	45.9
132.5°	47.5	41.9	39.4	45.1	46.7
135°	49.1	44.3	41.1	45.1	47.5
137.5°	50.7	46.7	41.1	45.1	46.7
140°	52.3	49.1	41.9	45.1	46.7
142.5°	53.1	50.7	42.7	45.1	46.7
145°	54.7	52.3	45.9	45.1	46.7
147.5°	55.5	53.9	48.3	45.1	46.7
150°	56.3	55.5	50.7	45.9	45.9
152.5°	57.1	56.3	52.3	49.1	47.5
155°	58.0	57.1	53.9	51.5	50.7
157.5°	58.8	58.8	55.5	53.9	53.1
160°	58.8	59.6	57.1	55.5	54.7
162.5°	59.6	60.4	58.0	57.1	56.3
165°	59.6	60.4	58.8	58.8	58.8
167.5°	60.4	61.2	60.4	59.6	59.6
170°	60.4	61.2	60.4	60.4	60.4
172.5°	60.4	61.2	61.2	61.2	61.2
175°	60.4	61.2	61.2	62.0	62.0
177.5°	60.4	61.2	61.2	61.2	61.2
180°	61.2	61.2	61.2	61.2	61.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	21.7	20.9	28.2	33.8	35.4
110°	24.1	22.5	29.8	34.6	36.2



(END OF REPORT)