

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: P520722

Luminaire Tested: **8WSLA-175-L950-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520722
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-175-L950-UPL8-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

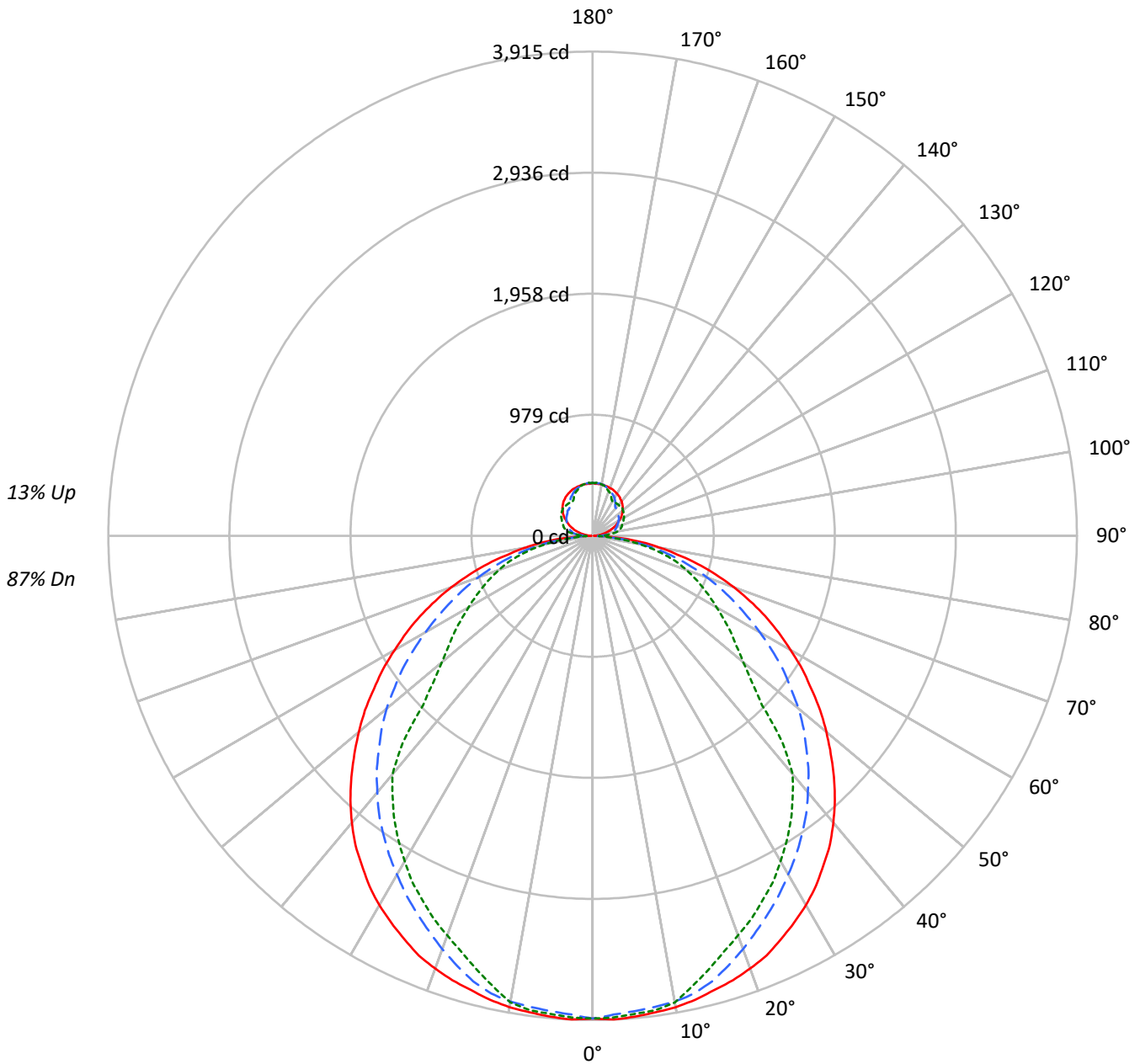
Lumens per Lamp: N/A
Luminaire Lumens: 12149.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 119
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°	10505	10505	10505
5°	10545	10424	10484
10°	10575	10452	10467
15°	10594	10390	10109
20°	10664	10182	9844
25°	10690	9990	9656
30°	10716	9826	9442
35°	10684	9687	9189
40°	10635	9511	8840
45°	10496	9299	7375
50°	10323	9100	6655
55°	10119	8802	6404
60°	9946	8404	6227
65°	9799	8047	6223
70°	9546	7734	6319
75°	9110	7358	6365
80°	8531	6616	5920
85°	7805	4684	3989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	3.0
10°-20°	1050.7	8.6
20°-30°	1569.9	12.9
30°-40°	1874.0	15.4
40°-50°	1874.2	15.4
50°-60°	1622.0	13.4
60°-70°	1245.0	10.2
70°-80°	762.9	6.3
80°-90°	214.8	1.8
90°-100°	121.4	1.0
100°-110°	192.7	1.6
110°-120°	225.2	1.9
120°-130°	243.2	2.0
130°-140°	239.6	2.0
140°-150°	212.0	1.7
150°-160°	174.5	1.4
160°-170°	116.8	1.0
170°-180°	40.7	0.3
0°-30°	2990.2	24.6
0°-40°	4864.2	40.0
0°-60°	8360.5	68.8
0°-90°	10583.1	87.1
90°-120°	539.3	4.4
90°-150°	1234.0	10.2
90°-180°	1566.0	12.9
0°-180°	12149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3904	3904	3904	3904	3904	
5°	3904	3892	3859	3887	3881	371
15°	3803	3797	3730	3662	3628	1076
25°	3600	3556	3364	3275	3252	1661
35°	3252	3168	2949	2842	2797	2037
45°	2758	2679	2443	2224	1938	2127
55°	2157	2106	1876	1500	1365	1934
65°	1539	1483	1264	1017	977	1520
75°	876	831	708	612	612	924
85°	253	208	152	129	129	264
90°	11	39	62	79	84	18
95°	45	96	129	135	135	44
105°	129	135	191	225	236	136
115°	213	180	225	258	275	209
125°	286	230	258	298	309	255
135°	343	309	286	314	331	264
145°	382	365	320	314	326	238
155°	404	399	376	360	354	187
165°	416	421	410	410	410	118
175°	421	427	427	432	432	40
180°	427	427	427	427	427	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3903.8	3903.8	3903.8	3903.8	3903.8
2.5°	3915.0	3903.8	3875.7	3903.8	3898.1
5°	3903.8	3892.5	3858.8	3886.9	3881.3
7.5°	3886.9	3875.7	3842.0	3875.7	3870.1
10°	3870.1	3858.8	3825.1	3847.6	3830.7
12.5°	3842.0	3830.7	3791.4	3763.3	3729.6
15°	3802.7	3797.0	3729.6	3662.2	3628.5
17.5°	3769.0	3752.1	3645.4	3566.7	3527.4
20°	3724.0	3695.9	3555.5	3465.6	3437.6
22.5°	3673.5	3628.5	3460.0	3375.8	3353.3
25°	3600.4	3555.5	3364.5	3274.7	3252.2
27.5°	3527.4	3471.3	3269.0	3179.2	3156.7
30°	3448.8	3370.2	3162.3	3078.1	3038.8
32.5°	3358.9	3280.3	3061.2	2965.7	2920.8
35°	3252.2	3167.9	2948.9	2842.2	2797.2
37.5°	3151.1	3061.2	2836.5	2718.6	2656.8
40°	3027.5	2937.6	2707.4	2578.2	2516.4
42.5°	2898.3	2814.1	2583.8	2426.5	2274.9
45°	2757.9	2679.3	2443.4	2224.3	1937.8
47.5°	2611.9	2544.5	2314.2	2016.5	1741.2
50°	2465.8	2398.4	2173.7	1819.9	1589.6
52.5°	2319.8	2263.6	2016.5	1657.0	1466.0
55°	2156.9	2106.3	1876.1	1499.7	1364.9
57.5°	2010.9	1960.3	1713.2	1370.5	1258.2
60°	1848.0	1803.0	1561.5	1241.3	1157.1
62.5°	1696.3	1645.8	1409.8	1129.0	1067.2
65°	1539.0	1482.9	1263.8	1016.7	977.3
67.5°	1376.1	1320.0	1123.4	915.6	893.1
70°	1213.3	1168.3	983.0	814.5	803.2
72.5°	1044.7	994.2	842.5	719.0	719.0
75°	876.2	831.3	707.7	612.2	612.2
77.5°	702.1	679.6	567.3	499.9	505.5
80°	550.5	522.4	426.9	382.0	382.0
82.5°	404.4	370.7	286.5	252.8	264.0
85°	252.8	207.8	151.7	129.2	129.2
87.5°	78.6	61.8	44.9	50.6	50.6
90°	11.2	39.3	61.8	78.6	84.3
92.5°	28.1	73.0	89.9	106.7	112.3
95°	44.9	95.5	129.2	134.8	134.8
97.5°	61.8	106.7	157.3	179.7	179.7
100°	84.3	112.3	168.5	202.2	207.8
102.5°	106.7	123.6	179.7	213.4	224.7
105°	129.2	134.8	191.0	224.7	235.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.0	168.5	213.4	252.8	264.0
115°	213.4	179.7	224.7	258.4	275.2
117.5°	230.3	196.6	235.9	269.6	280.8
120°	247.1	207.8	241.5	280.8	292.1
122.5°	269.6	219.1	252.8	286.5	303.3
125°	286.5	230.3	258.4	297.7	308.9
127.5°	303.3	252.8	264.0	303.3	314.5
130°	314.5	275.2	269.6	308.9	320.2
132.5°	331.4	292.1	275.2	314.5	325.8
135°	342.6	308.9	286.5	314.5	331.4
137.5°	353.9	325.8	286.5	314.5	325.8
140°	365.1	342.6	292.1	314.5	325.8
142.5°	370.7	353.9	297.7	314.5	325.8
145°	382.0	365.1	320.2	314.5	325.8
147.5°	387.6	376.3	337.0	314.5	325.8
150°	393.2	387.6	353.9	320.2	320.2
152.5°	398.8	393.2	365.1	342.6	331.4
155°	404.4	398.8	376.3	359.5	353.9
157.5°	410.0	410.0	387.6	376.3	370.7
160°	410.0	415.7	398.8	387.6	382.0
162.5°	415.7	421.3	404.4	398.8	393.2
165°	415.7	421.3	410.0	410.0	410.0
167.5°	421.3	426.9	421.3	415.7	415.7
170°	421.3	426.9	421.3	421.3	421.3
172.5°	421.3	426.9	426.9	426.9	426.9
175°	421.3	426.9	426.9	432.5	432.5
177.5°	421.3	426.9	426.9	426.9	426.9
180°	426.9	426.9	426.9	426.9	426.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	151.7	146.0	196.6	235.9	247.1
110°	168.5	157.3	207.8	241.5	252.8



(END OF REPORT)