

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: P520790

Luminaire Tested: **8WSLA-75-L940-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-75-L940-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

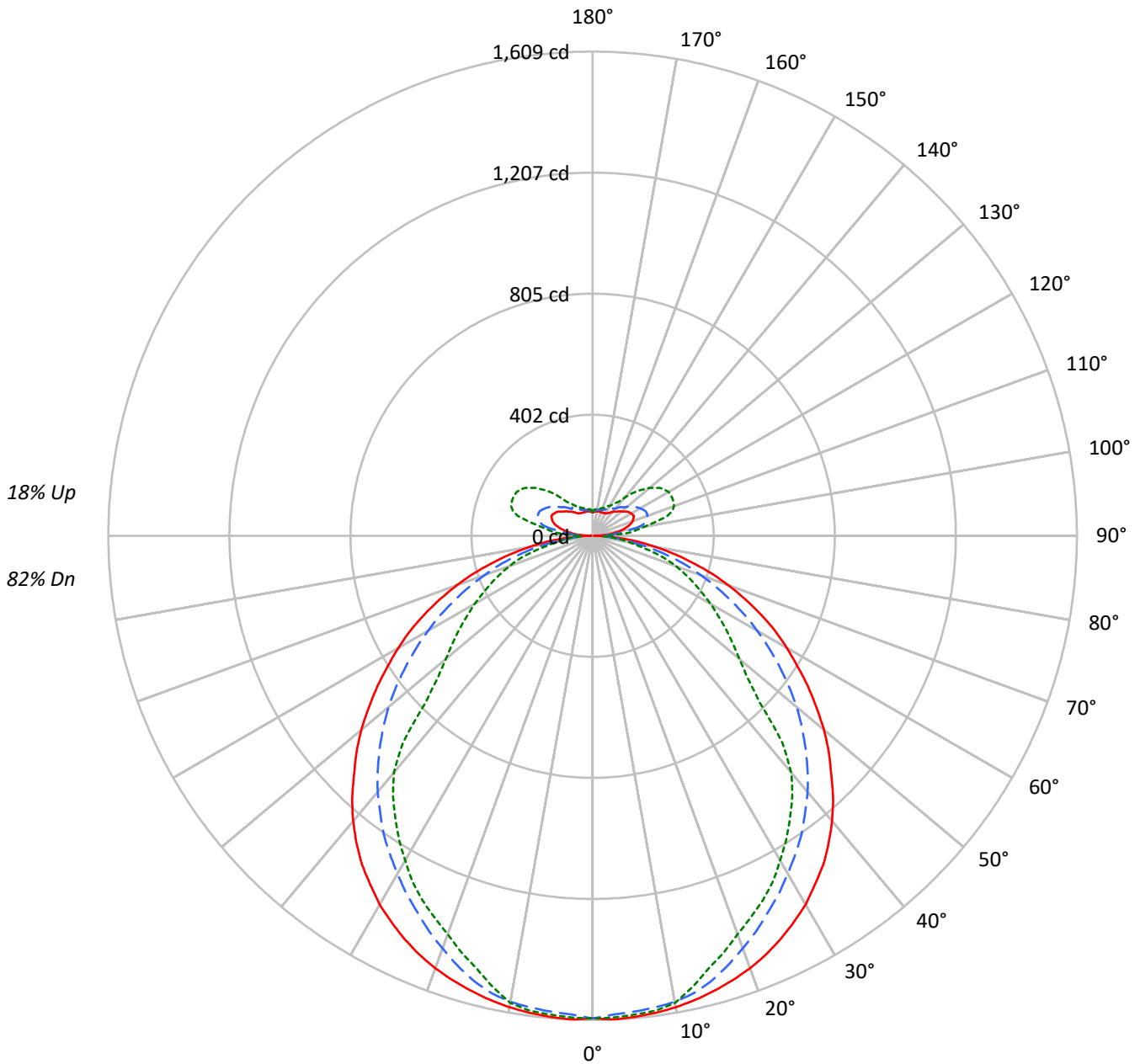
Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4316	4316	4316
5°	4337	4288	4315
10°	4347	4298	4307
15°	4359	4264	4146
20°	4378	4178	4034
25°	4390	4095	3970
30°	4397	4028	3871
35°	4387	3975	3756
40°	4348	3902	3605
45°	4265	3807	2990
50°	4201	3704	2663
55°	4098	3556	2533
60°	4010	3397	2434
65°	3915	3210	2361
70°	3762	3007	2316
75°	3552	2756	2130
80°	3251	2318	1891
85°	2912	2010	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	2.9
10°-20°	431.8	8.3
20°-30°	644.4	12.4
30°-40°	767.8	14.8
40°-50°	763.7	14.7
50°-60°	654.5	12.6
60°-70°	492.9	9.5
70°-80°	285.5	5.5
80°-90°	85.8	1.7
90°-100°	92.1	1.8
100°-110°	189.2	3.6
110°-120°	200.0	3.9
120°-130°	166.9	3.2
130°-140°	116.6	2.2
140°-150°	72.5	1.4
150°-160°	45.0	0.9
160°-170°	25.3	0.5
170°-180°	8.2	0.2
0°-30°	1228.1	23.6
0°-40°	1995.9	38.4
0°-60°	3414.1	65.7
0°-90°	4278.3	82.4
90°-120°	481.3	9.3
90°-150°	837.3	16.1
90°-180°	916.0	17.6
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1605	1600	1588	1599	1597	153
15°	1565	1563	1531	1504	1488	442
25°	1478	1457	1379	1345	1337	682
35°	1335	1300	1210	1163	1144	834
45°	1121	1093	1000	901	786	866
55°	873	860	758	602	540	781
65°	615	600	504	392	371	608
75°	342	330	265	211	205	362
85°	94	83	65	62	62	101
90°	5	23	39	49	52	10
95°	52	70	80	117	127	50
105°	122	127	182	244	259	127
115°	151	128	194	267	293	147
125°	140	124	168	246	276	124
135°	114	124	135	182	210	89
145°	93	107	117	125	133	59
155°	85	90	96	104	106	39
165°	83	86	90	93	93	24
175°	81	83	85	86	88	8
180°	80	80	80	80	80	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.8	1603.8	1603.8	1603.8	1603.8
2.5°	1608.6	1605.4	1592.4	1605.4	1602.1
5°	1605.4	1600.5	1587.5	1598.9	1597.3
7.5°	1598.9	1595.6	1581.0	1594.0	1592.4
10°	1590.8	1585.9	1572.9	1582.6	1576.1
12.5°	1579.4	1576.1	1556.6	1548.5	1535.4
15°	1564.7	1563.1	1530.6	1504.5	1488.3
17.5°	1548.5	1542.0	1496.4	1465.5	1450.9
20°	1528.9	1519.2	1459.0	1423.2	1408.6
22.5°	1506.2	1491.5	1421.6	1387.4	1372.8
25°	1478.5	1457.4	1379.3	1345.1	1337.0
27.5°	1447.6	1423.2	1340.3	1306.1	1296.3
30°	1415.1	1384.2	1296.3	1263.8	1245.9
32.5°	1374.4	1345.1	1254.1	1216.6	1197.1
35°	1335.4	1299.6	1210.1	1163.0	1143.5
37.5°	1288.2	1252.4	1159.7	1112.5	1089.8
40°	1237.8	1202.0	1110.9	1055.6	1026.3
42.5°	1182.5	1150.0	1057.2	990.6	933.6
45°	1120.7	1093.0	1000.3	901.1	785.6
47.5°	1063.8	1037.7	943.4	814.9	696.2
50°	1003.6	979.2	884.8	733.6	636.0
52.5°	936.9	919.0	821.4	663.6	585.6
55°	873.4	860.4	758.0	601.8	540.0
57.5°	806.8	793.7	694.5	543.3	494.5
60°	745.0	731.9	631.1	491.2	452.2
62.5°	683.1	665.3	569.3	440.8	408.3
65°	614.8	600.2	504.2	392.0	370.8
67.5°	546.5	533.5	444.0	346.5	331.8
70°	478.2	466.8	382.2	302.5	294.4
72.5°	411.5	396.9	326.9	258.6	255.4
75°	341.6	330.2	265.1	211.4	204.9
77.5°	274.9	265.1	208.2	161.0	156.1
80°	209.8	200.1	149.6	117.1	122.0
82.5°	154.5	141.5	100.8	91.1	96.0
85°	94.3	83.0	65.1	61.8	61.8
87.5°	32.5	30.9	29.3	34.2	35.8
90°	4.9	22.8	39.0	48.8	52.0
92.5°	27.7	40.7	53.7	63.4	66.7
95°	52.0	69.9	79.7	117.1	126.9
97.5°	71.6	92.7	104.1	138.3	148.0
100°	91.1	110.6	146.4	164.3	175.7
102.5°	107.4	122.0	172.4	208.2	214.7
105°	122.0	126.9	182.2	244.0	258.6



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CATALOG NUMBER: 8WSLA-75-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.4	130.1	195.2	265.1	291.1
115°	151.3	128.5	193.6	266.8	292.8
117.5°	151.3	128.5	188.7	266.8	292.8
120°	148.0	130.1	182.2	263.5	291.1
122.5°	144.8	126.9	175.7	257.0	284.6
125°	139.9	123.6	167.5	245.6	276.5
127.5°	131.7	126.9	159.4	231.0	261.9
130°	125.2	128.5	149.6	216.3	247.2
132.5°	120.4	125.2	139.9	200.1	227.7
135°	113.9	123.6	135.0	182.2	209.8
137.5°	109.0	118.7	126.9	165.9	188.7
140°	104.1	115.5	118.7	144.8	164.3
142.5°	97.6	110.6	112.2	135.0	143.1
145°	92.7	107.4	117.1	125.2	133.4
147.5°	87.8	100.8	113.9	115.5	123.6
150°	86.2	94.3	109.0	110.6	113.9
152.5°	84.6	91.1	100.8	110.6	112.2
155°	84.6	89.5	96.0	104.1	105.7
157.5°	83.0	89.5	92.7	99.2	100.8
160°	83.0	87.8	91.1	96.0	97.6
162.5°	83.0	87.8	89.5	94.3	96.0
165°	83.0	86.2	89.5	92.7	92.7
167.5°	83.0	86.2	87.8	91.1	91.1
170°	83.0	84.6	87.8	89.5	89.5
172.5°	81.3	84.6	86.2	89.5	89.5
175°	81.3	83.0	84.6	86.2	87.8
177.5°	78.1	83.0	84.6	86.2	84.6
180°	79.7	79.7	79.7	79.7	79.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	133.4	128.5	188.7	257.0	278.1
110°	141.5	130.1	193.6	261.9	287.9



(END OF REPORT)