

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: P520779

Luminaire Tested: **8WSLA-75-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520779
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-75-L840-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

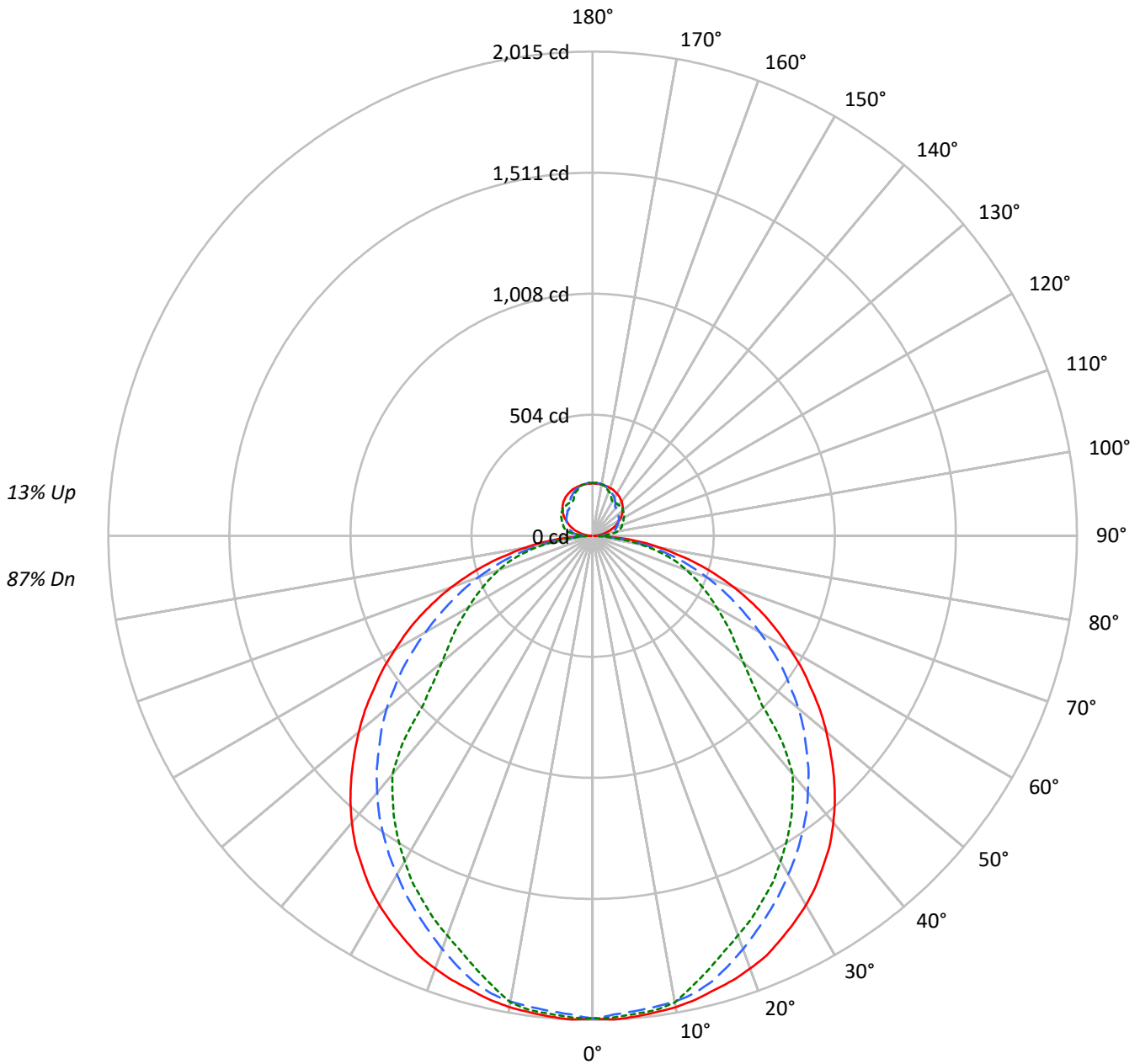
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6253.0 lumens
Efficiency: N/A
Efficacy: 134.2 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): 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	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°	5407	5407	5407
5°	5427	5365	5396
10°	5443	5380	5388
15°	5453	5348	5203
20°	5489	5241	5067
25°	5502	5142	4970
30°	5516	5057	4860
35°	5499	4986	4730
40°	5474	4895	4550
45°	5402	4786	3796
50°	5313	4684	3425
55°	5208	4530	3296
60°	5119	4325	3205
65°	5044	4142	3203
70°	4914	3980	3253
75°	4689	3788	3276
80°	4390	3405	3047
85°	4017	2411	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	3.0
10°-20°	540.8	8.6
20°-30°	808.0	12.9
30°-40°	964.5	15.4
40°-50°	964.6	15.4
50°-60°	834.9	13.4
60°-70°	640.8	10.2
70°-80°	392.6	6.3
80°-90°	110.5	1.8
90°-100°	62.5	1.0
100°-110°	99.2	1.6
110°-120°	115.9	1.9
120°-130°	125.2	2.0
130°-140°	123.3	2.0
140°-150°	109.1	1.7
150°-160°	89.8	1.4
160°-170°	60.1	1.0
170°-180°	20.9	0.3
0°-30°	1539.0	24.6
0°-40°	2503.6	40.0
0°-60°	4303.1	68.8
0°-90°	5447.0	87.1
90°-120°	277.6	4.4
90°-150°	635.2	10.2
90°-180°	806.0	12.9
0°-180°	6253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	2009	2004	1986	2001	1998	191
15°	1957	1954	1920	1885	1868	554
25°	1853	1830	1732	1685	1674	855
35°	1674	1630	1518	1463	1440	1048
45°	1420	1379	1258	1145	997	1095
55°	1110	1084	966	772	702	995
65°	792	763	650	523	503	782
75°	451	428	364	315	315	476
85°	130	107	78	66	66	136
90°	6	20	32	40	43	9
95°	23	49	66	69	69	23
105°	66	69	98	116	121	70
115°	110	92	116	133	142	107
125°	147	118	133	153	159	131
135°	176	159	147	162	171	136
145°	197	188	165	162	168	123
155°	208	205	194	185	182	96
165°	214	217	211	211	211	61
175°	217	220	220	223	223	21
180°	220	220	220	220	220	



TEST NUMBER: P520779

CATALOG NUMBER: 8WSLA-75-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.2	2009.2	2009.2	2009.2	2009.2
2.5°	2015.0	2009.2	1994.8	2009.2	2006.3
5°	2009.2	2003.5	1986.1	2000.6	1997.7
7.5°	2000.6	1994.8	1977.4	1994.8	1991.9
10°	1991.9	1986.1	1968.8	1980.3	1971.7
12.5°	1977.4	1971.7	1951.4	1937.0	1919.6
15°	1957.2	1954.3	1919.6	1884.9	1867.6
17.5°	1939.9	1931.2	1876.3	1835.8	1815.5
20°	1916.7	1902.3	1830.0	1783.7	1769.3
22.5°	1890.7	1867.6	1780.8	1737.5	1725.9
25°	1853.1	1830.0	1731.7	1685.4	1673.9
27.5°	1815.5	1786.6	1682.6	1636.3	1624.7
30°	1775.1	1734.6	1627.6	1584.3	1564.0
32.5°	1728.8	1688.3	1575.6	1526.4	1503.3
35°	1673.9	1630.5	1517.8	1462.8	1439.7
37.5°	1621.8	1575.6	1459.9	1399.2	1367.4
40°	1558.2	1512.0	1393.5	1327.0	1295.2
42.5°	1491.7	1448.4	1329.9	1248.9	1170.8
45°	1419.5	1379.0	1257.6	1144.8	997.4
47.5°	1344.3	1309.6	1191.1	1037.9	896.2
50°	1269.1	1234.5	1118.8	936.7	818.1
52.5°	1194.0	1165.1	1037.9	852.8	754.5
55°	1110.1	1084.1	965.6	771.9	702.5
57.5°	1035.0	1009.0	881.8	705.4	647.6
60°	951.1	928.0	803.7	638.9	595.5
62.5°	873.1	847.1	725.6	581.1	549.3
65°	792.1	763.2	650.5	523.3	503.0
67.5°	708.3	679.4	578.2	471.2	459.7
70°	624.5	601.3	505.9	419.2	413.4
72.5°	537.7	511.7	433.6	370.0	370.0
75°	451.0	427.9	364.3	315.1	315.1
77.5°	361.4	349.8	292.0	257.3	260.2
80°	283.3	268.9	219.7	196.6	196.6
82.5°	208.2	190.8	147.4	130.1	135.9
85°	130.1	107.0	78.1	66.5	66.5
87.5°	40.5	31.8	23.1	26.0	26.0
90°	5.8	20.2	31.8	40.5	43.4
92.5°	14.5	37.6	46.3	54.9	57.8
95°	23.1	49.1	66.5	69.4	69.4
97.5°	31.8	54.9	80.9	92.5	92.5
100°	43.4	57.8	86.7	104.1	107.0
102.5°	54.9	63.6	92.5	109.9	115.6
105°	66.5	69.4	98.3	115.6	121.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.3	86.7	109.9	130.1	135.9
115°	109.9	92.5	115.6	133.0	141.7
117.5°	118.5	101.2	121.4	138.8	144.5
120°	127.2	107.0	124.3	144.5	150.3
122.5°	138.8	112.7	130.1	147.4	156.1
125°	147.4	118.5	133.0	153.2	159.0
127.5°	156.1	130.1	135.9	156.1	161.9
130°	161.9	141.7	138.8	159.0	164.8
132.5°	170.6	150.3	141.7	161.9	167.7
135°	176.4	159.0	147.4	161.9	170.6
137.5°	182.1	167.7	147.4	161.9	167.7
140°	187.9	176.4	150.3	161.9	167.7
142.5°	190.8	182.1	153.2	161.9	167.7
145°	196.6	187.9	164.8	161.9	167.7
147.5°	199.5	193.7	173.5	161.9	167.7
150°	202.4	199.5	182.1	164.8	164.8
152.5°	205.3	202.4	187.9	176.4	170.6
155°	208.2	205.3	193.7	185.0	182.1
157.5°	211.0	211.0	199.5	193.7	190.8
160°	211.0	213.9	205.3	199.5	196.6
162.5°	213.9	216.8	208.2	205.3	202.4
165°	213.9	216.8	211.0	211.0	211.0
167.5°	216.8	219.7	216.8	213.9	213.9
170°	216.8	219.7	216.8	216.8	216.8
172.5°	216.8	219.7	219.7	219.7	219.7
175°	216.8	219.7	219.7	222.6	222.6
177.5°	216.8	219.7	219.7	219.7	219.7
180°	219.7	219.7	219.7	219.7	219.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	78.1	75.2	101.2	121.4	127.2
110°	86.7	80.9	107.0	124.3	130.1



(END OF REPORT)