

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: P520791

Luminaire Tested: **8WSLA-75-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520791
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-L940-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

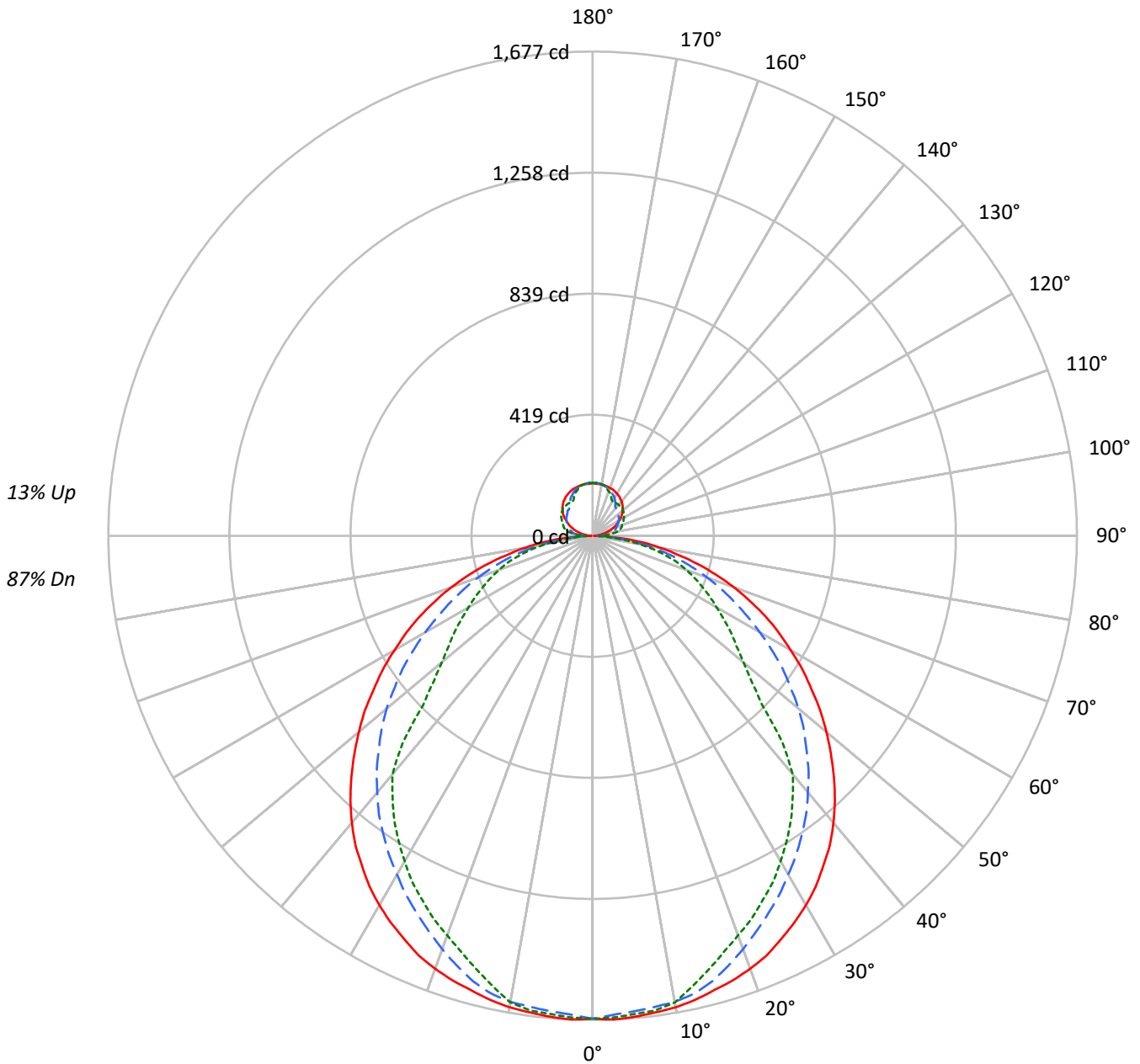
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5205.0 lumens
Efficiency: N/A
Efficacy: 111.7 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°	4501	4501	4501
5°	4518	4466	4492
10°	4531	4478	4485
15°	4539	4452	4331
20°	4569	4362	4218
25°	4580	4280	4137
30°	4591	4210	4045
35°	4577	4150	3937
40°	4556	4075	3787
45°	4497	3984	3159
50°	4423	3899	2851
55°	4335	3771	2744
60°	4261	3601	2668
65°	4199	3448	2666
70°	4090	3313	2707
75°	3903	3152	2727
80°	3654	2834	2535
85°	3344	2007	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.0
10°-20°	450.1	8.6
20°-30°	672.6	12.9
30°-40°	802.9	15.4
40°-50°	803.0	15.4
50°-60°	694.9	13.4
60°-70°	533.4	10.2
70°-80°	326.8	6.3
80°-90°	92.0	1.8
90°-100°	52.0	1.0
100°-110°	82.5	1.6
110°-120°	96.5	1.9
120°-130°	104.2	2.0
130°-140°	102.7	2.0
140°-150°	90.8	1.7
150°-160°	74.7	1.4
160°-170°	50.0	1.0
170°-180°	17.4	0.3
0°-30°	1281.1	24.6
0°-40°	2084.0	40.0
0°-60°	3581.9	68.8
0°-90°	4534.1	87.1
90°-120°	231.0	4.4
90°-150°	528.7	10.2
90°-180°	671.0	12.9
0°-180°	5205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1672	1668	1653	1665	1663	159
15°	1629	1627	1598	1569	1555	461
25°	1542	1523	1442	1403	1393	712
35°	1393	1357	1263	1218	1198	873
45°	1182	1148	1047	953	830	911
55°	924	902	804	642	585	828
65°	659	635	542	436	419	651
75°	375	356	303	262	262	396
85°	108	89	65	55	55	113
90°	5	17	26	34	36	8
95°	19	41	55	58	58	19
105°	55	58	82	96	101	58
115°	91	77	96	111	118	89
125°	123	99	111	128	132	109
135°	147	132	123	135	142	113
145°	164	156	137	135	140	102
155°	173	171	161	154	152	80
165°	178	180	176	176	176	51
175°	180	183	183	185	185	17
180°	183	183	183	183	183	



TEST NUMBER: P520791

CATALOG NUMBER: 8WSLA-75-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.5	1672.5	1672.5	1672.5	1672.5
2.5°	1677.3	1672.5	1660.5	1672.5	1670.1
5°	1672.5	1667.7	1653.2	1665.3	1662.9
7.5°	1665.3	1660.5	1646.0	1660.5	1658.1
10°	1658.1	1653.2	1638.8	1648.4	1641.2
12.5°	1646.0	1641.2	1624.4	1612.3	1597.9
15°	1629.2	1626.8	1597.9	1569.0	1554.6
17.5°	1614.7	1607.5	1561.8	1528.1	1511.3
20°	1595.5	1583.5	1523.3	1484.8	1472.8
22.5°	1573.8	1554.6	1482.4	1446.3	1436.7
25°	1542.5	1523.3	1441.5	1403.0	1393.3
27.5°	1511.3	1487.2	1400.6	1362.1	1352.4
30°	1477.6	1443.9	1354.8	1318.7	1301.9
32.5°	1439.1	1405.4	1311.5	1270.6	1251.4
35°	1393.3	1357.2	1263.4	1217.7	1198.4
37.5°	1350.0	1311.5	1215.3	1164.7	1138.3
40°	1297.1	1258.6	1159.9	1104.6	1078.1
42.5°	1241.7	1205.6	1107.0	1039.6	974.6
45°	1181.6	1147.9	1046.8	953.0	830.2
47.5°	1119.0	1090.1	991.5	863.9	746.0
50°	1056.4	1027.6	931.3	779.7	681.0
52.5°	993.9	969.8	863.9	709.9	628.1
55°	924.1	902.4	803.8	642.5	584.8
57.5°	861.5	839.9	734.0	587.2	539.0
60°	791.7	772.5	669.0	531.8	495.7
62.5°	726.8	705.1	604.0	483.7	457.2
65°	659.4	635.3	541.5	435.6	418.7
67.5°	589.6	565.5	481.3	392.3	382.6
70°	519.8	500.5	421.1	348.9	344.1
72.5°	447.6	425.9	361.0	308.0	308.0
75°	375.4	356.2	303.2	262.3	262.3
77.5°	300.8	291.2	243.1	214.2	216.6
80°	235.8	223.8	182.9	163.6	163.6
82.5°	173.3	158.8	122.7	108.3	113.1
85°	108.3	89.0	65.0	55.3	55.3
87.5°	33.7	26.5	19.3	21.7	21.7
90°	4.8	16.8	26.5	33.7	36.1
92.5°	12.0	31.3	38.5	45.7	48.1
95°	19.3	40.9	55.3	57.8	57.8
97.5°	26.5	45.7	67.4	77.0	77.0
100°	36.1	48.1	72.2	86.6	89.0
102.5°	45.7	52.9	77.0	91.4	96.3
105°	55.3	57.8	81.8	96.3	101.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	81.8	72.2	91.4	108.3	113.1
115°	91.4	77.0	96.3	110.7	117.9
117.5°	98.7	84.2	101.1	115.5	120.3
120°	105.9	89.0	103.5	120.3	125.1
122.5°	115.5	93.9	108.3	122.7	129.9
125°	122.7	98.7	110.7	127.5	132.4
127.5°	129.9	108.3	113.1	129.9	134.8
130°	134.8	117.9	115.5	132.4	137.2
132.5°	142.0	125.1	117.9	134.8	139.6
135°	146.8	132.4	122.7	134.8	142.0
137.5°	151.6	139.6	122.7	134.8	139.6
140°	156.4	146.8	125.1	134.8	139.6
142.5°	158.8	151.6	127.5	134.8	139.6
145°	163.6	156.4	137.2	134.8	139.6
147.5°	166.0	161.2	144.4	134.8	139.6
150°	168.5	166.0	151.6	137.2	137.2
152.5°	170.9	168.5	156.4	146.8	142.0
155°	173.3	170.9	161.2	154.0	151.6
157.5°	175.7	175.7	166.0	161.2	158.8
160°	175.7	178.1	170.9	166.0	163.6
162.5°	178.1	180.5	173.3	170.9	168.5
165°	178.1	180.5	175.7	175.7	175.7
167.5°	180.5	182.9	180.5	178.1	178.1
170°	180.5	182.9	180.5	180.5	180.5
172.5°	180.5	182.9	182.9	182.9	182.9
175°	180.5	182.9	182.9	185.3	185.3
177.5°	180.5	182.9	182.9	182.9	182.9
180°	182.9	182.9	182.9	182.9	182.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	65.0	62.6	84.2	101.1	105.9
110°	72.2	67.4	89.0	103.5	108.3



(END OF REPORT)