

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: P520614

Luminaire Tested: **4WSLA-75-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520614  
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-75-L850-UPL8-UNV-U  
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

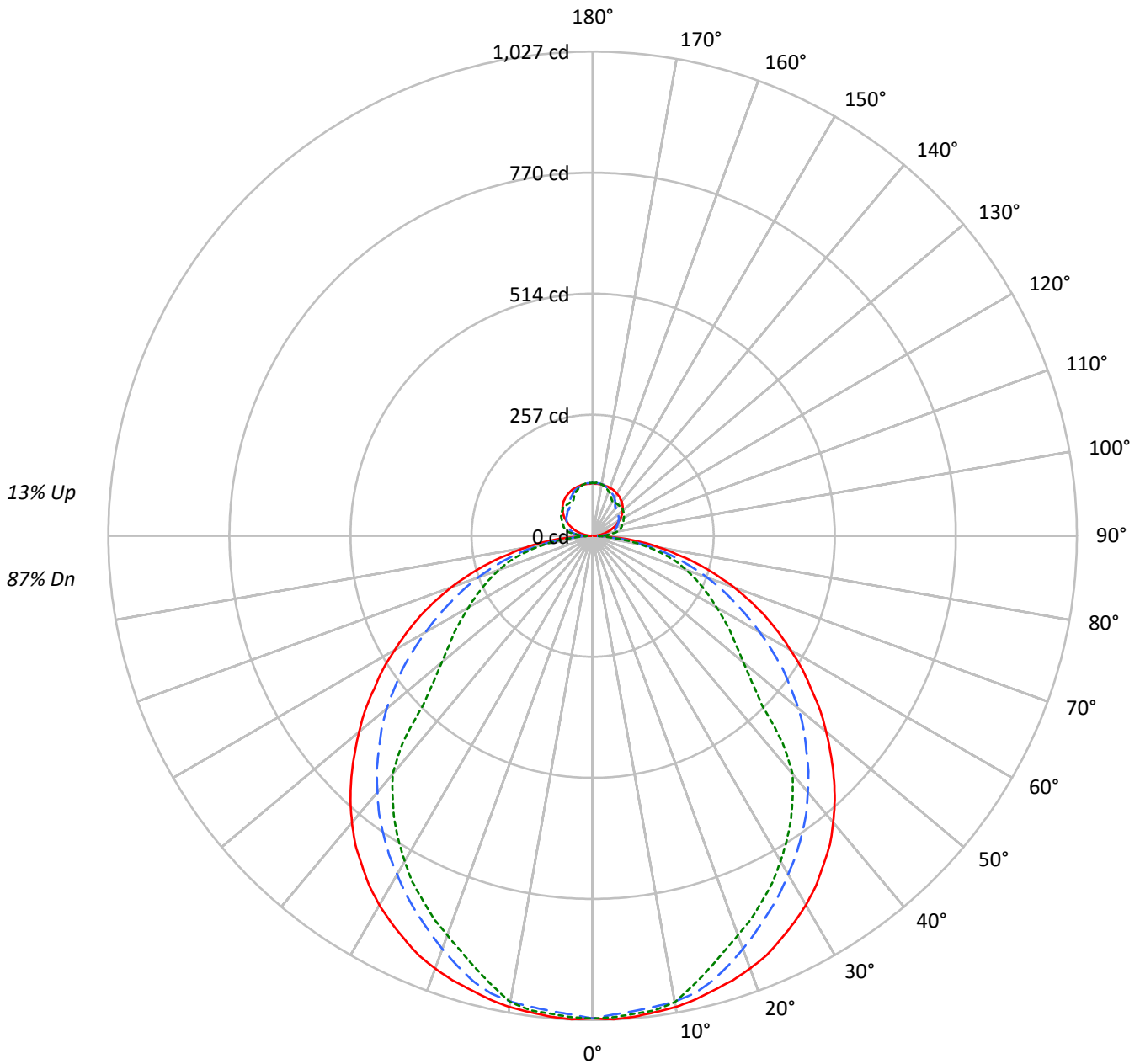
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3186.0 lumens  
Efficiency: N/A  
Efficacy: 137.3 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): 23.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				20				20	
RC	80				70				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				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5510	5510	5510
5°	5531	5467	5499
10°	5546	5482	5490
15°	5556	5450	5302
20°	5593	5340	5163
25°	5607	5239	5065
30°	5620	5154	4952
35°	5604	5081	4820
40°	5578	4988	4636
45°	5504	4877	3868
50°	5414	4773	3491
55°	5307	4617	3358
60°	5216	4408	3266
65°	5140	4220	3264
70°	5007	4057	3314
75°	4779	3859	3340
80°	4475	3468	3106
85°	4094	2458	2093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	3.0
10°-20°	275.5	8.6
20°-30°	411.7	12.9
30°-40°	491.5	15.4
40°-50°	491.5	15.4
50°-60°	425.4	13.4
60°-70°	326.5	10.2
70°-80°	200.1	6.3
80°-90°	56.3	1.8
90°-100°	31.8	1.0
100°-110°	50.5	1.6
110°-120°	59.1	1.9
120°-130°	63.8	2.0
130°-140°	62.8	2.0
140°-150°	55.6	1.7
150°-160°	45.7	1.4
160°-170°	30.6	1.0
170°-180°	10.7	0.3
0°-30°	784.2	24.6
0°-40°	1275.6	40.0
0°-60°	2192.5	68.8
0°-90°	2775.4	87.1
90°-120°	141.4	4.4
90°-150°	323.6	10.2
90°-180°	411.0	12.9
0°-180°	3186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1021	1012	1019	1018	97
15°	997	996	978	960	952	282
25°	944	932	882	859	853	436
35°	853	831	773	745	734	534
45°	723	703	641	583	508	558
55°	566	552	492	393	358	507
65°	404	389	331	267	256	399
75°	230	218	186	161	161	242
85°	66	54	40	34	34	69
90°	3	10	16	21	22	5
95°	12	25	34	35	35	12
105°	34	35	50	59	62	36
115°	56	47	59	68	72	55
125°	75	60	68	78	81	67
135°	90	81	75	82	87	69
145°	100	96	84	82	85	62
155°	106	105	99	94	93	49
165°	109	110	108	108	108	31
175°	110	112	112	113	113	11
180°	112	112	112	112	112	



TEST NUMBER: P520614

CATALOG NUMBER: 4WSLA-75-L850-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1023.7	1023.7	1023.7	1023.7	1023.7
2.5°	1026.7	1023.7	1016.4	1023.7	1022.3
5°	1023.7	1020.8	1012.0	1019.3	1017.8
7.5°	1019.3	1016.4	1007.5	1016.4	1014.9
10°	1014.9	1012.0	1003.1	1009.0	1004.6
12.5°	1007.5	1004.6	994.3	986.9	978.1
15°	997.2	995.7	978.1	960.4	951.6
17.5°	988.4	984.0	956.0	935.4	925.0
20°	976.6	969.2	932.4	908.8	901.5
22.5°	963.3	951.6	907.4	885.3	879.4
25°	944.2	932.4	882.3	858.8	852.9
27.5°	925.0	910.3	857.3	833.7	827.8
30°	904.4	883.8	829.3	807.2	796.9
32.5°	880.9	860.2	802.8	777.7	766.0
35°	852.9	830.8	773.3	745.3	733.6
37.5°	826.4	802.8	743.9	712.9	696.7
40°	793.9	770.4	710.0	676.1	659.9
42.5°	760.1	738.0	677.6	636.3	596.6
45°	723.2	702.6	640.8	583.3	508.2
47.5°	684.9	667.3	606.9	528.8	456.6
50°	646.6	629.0	570.1	477.3	416.9
52.5°	608.4	593.6	528.8	434.5	384.5
55°	565.6	552.4	492.0	393.3	357.9
57.5°	527.3	514.1	449.3	359.4	330.0
60°	484.6	472.8	409.5	325.5	303.4
62.5°	444.8	431.6	369.7	296.1	279.9
65°	403.6	388.9	331.4	266.6	256.3
67.5°	360.9	346.2	294.6	240.1	234.2
70°	318.2	306.4	257.8	213.6	210.6
72.5°	274.0	260.7	221.0	188.5	188.5
75°	229.8	218.0	185.6	160.6	160.6
77.5°	184.1	178.2	148.8	131.1	132.6
80°	144.4	137.0	111.9	100.2	100.2
82.5°	106.1	97.2	75.1	66.3	69.2
85°	66.3	54.5	39.8	33.9	33.9
87.5°	20.6	16.2	11.8	13.3	13.3
90°	2.9	10.3	16.2	20.6	22.1
92.5°	7.4	19.1	23.6	28.0	29.5
95°	11.8	25.0	33.9	35.4	35.4
97.5°	16.2	28.0	41.2	47.1	47.1
100°	22.1	29.5	44.2	53.0	54.5
102.5°	28.0	32.4	47.1	56.0	58.9
105°	33.9	35.4	50.1	58.9	61.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	44.2	56.0	66.3	69.2
115°	56.0	47.1	58.9	67.8	72.2
117.5°	60.4	51.6	61.9	70.7	73.7
120°	64.8	54.5	63.3	73.7	76.6
122.5°	70.7	57.4	66.3	75.1	79.5
125°	75.1	60.4	67.8	78.1	81.0
127.5°	79.5	66.3	69.2	79.5	82.5
130°	82.5	72.2	70.7	81.0	84.0
132.5°	86.9	76.6	72.2	82.5	85.4
135°	89.9	81.0	75.1	82.5	86.9
137.5°	92.8	85.4	75.1	82.5	85.4
140°	95.7	89.9	76.6	82.5	85.4
142.5°	97.2	92.8	78.1	82.5	85.4
145°	100.2	95.7	84.0	82.5	85.4
147.5°	101.6	98.7	88.4	82.5	85.4
150°	103.1	101.6	92.8	84.0	84.0
152.5°	104.6	103.1	95.7	89.9	86.9
155°	106.1	104.6	98.7	94.3	92.8
157.5°	107.5	107.5	101.6	98.7	97.2
160°	107.5	109.0	104.6	101.6	100.2
162.5°	109.0	110.5	106.1	104.6	103.1
165°	109.0	110.5	107.5	107.5	107.5
167.5°	110.5	111.9	110.5	109.0	109.0
170°	110.5	111.9	110.5	110.5	110.5
172.5°	110.5	111.9	111.9	111.9	111.9
175°	110.5	111.9	111.9	113.4	113.4
177.5°	110.5	111.9	111.9	111.9	111.9
180°	111.9	111.9	111.9	111.9	111.9



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	39.8	38.3	51.6	61.9	64.8
110°	44.2	41.2	54.5	63.3	66.3



(END OF REPORT)