

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: P520610

Luminaire Tested: **4WSLA-75-L840-UPL15-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520610  
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: 4WSLA-75-L840-UPL15-UNV-U  
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

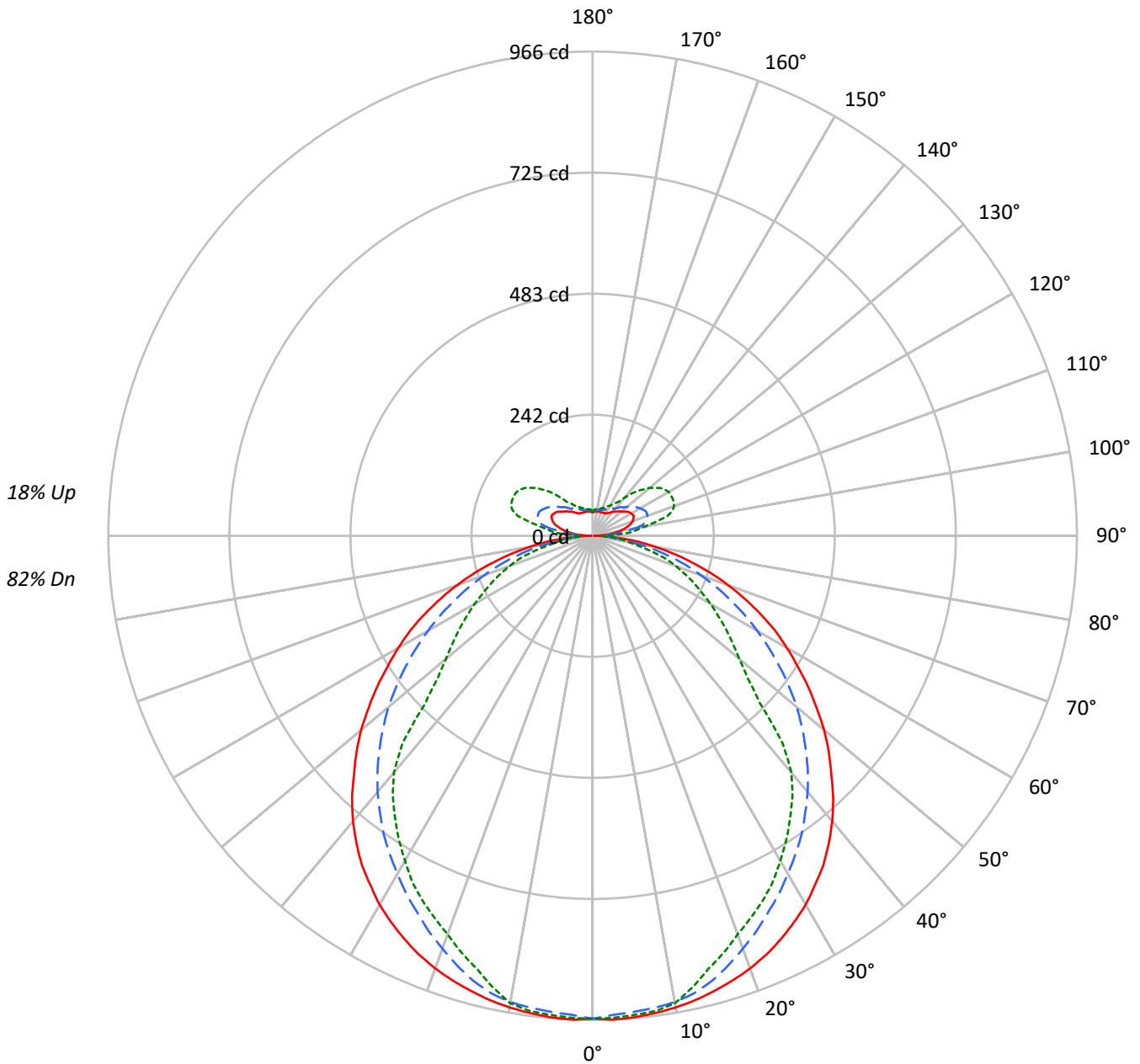
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3120.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 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				
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

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

	0°	45°	90°
0°	5185	5185	5185
5°	5210	5152	5184
10°	5222	5163	5174
15°	5237	5123	4981
20°	5260	5019	4846
25°	5274	4920	4769
30°	5282	4839	4651
35°	5271	4776	4513
40°	5224	4688	4331
45°	5124	4574	3592
50°	5047	4450	3198
55°	4923	4272	3044
60°	4817	4081	2923
65°	4703	3857	2837
70°	4521	3613	2782
75°	4267	3313	2560
80°	3905	2786	2272
85°	3501	2414	2291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	2.9
10°-20°	259.4	8.3
20°-30°	387.1	12.4
30°-40°	461.2	14.8
40°-50°	458.7	14.7
50°-60°	393.2	12.6
60°-70°	296.1	9.5
70°-80°	171.5	5.5
80°-90°	51.5	1.7
90°-100°	55.3	1.8
100°-110°	113.6	3.6
110°-120°	120.1	3.9
120°-130°	100.2	3.2
130°-140°	70.0	2.2
140°-150°	43.6	1.4
150°-160°	27.0	0.9
160°-170°	15.2	0.5
170°-180°	4.9	0.2
0°-30°	737.7	23.6
0°-40°	1198.9	38.4
0°-60°	2050.8	65.7
0°-90°	2569.9	82.4
90°-120°	289.1	9.3
90°-150°	502.9	16.1
90°-180°	550.0	17.6
0°-180°	3120.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	964	961	954	960	960	92
15°	940	939	919	904	894	266
25°	888	875	828	808	803	409
35°	802	781	727	699	687	501
45°	673	657	601	541	472	520
55°	525	517	455	362	324	469
65°	369	360	303	236	223	365
75°	205	198	159	127	123	217
85°	57	50	39	37	37	60
90°	3	14	23	29	31	6
95°	31	42	48	70	76	30
105°	73	76	109	147	155	76
115°	91	77	116	160	176	88
125°	84	74	101	148	166	75
135°	68	74	81	109	126	53
145°	56	64	70	75	80	35
155°	51	54	58	62	64	23
165°	50	52	54	56	56	14
175°	49	50	51	52	53	5
180°	48	48	48	48	48	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	963.4	963.4	963.4	963.4	963.4
2.5°	966.3	964.3	956.5	964.3	962.4
5°	964.3	961.4	953.6	960.4	959.5
7.5°	960.4	958.5	949.7	957.5	956.5
10°	955.6	952.6	944.8	950.7	946.8
12.5°	948.7	946.8	935.0	930.1	922.3
15°	939.9	938.9	919.4	903.8	894.0
17.5°	930.1	926.2	898.9	880.3	871.5
20°	918.4	912.6	876.4	854.9	846.1
22.5°	904.7	896.0	853.9	833.4	824.6
25°	888.1	875.4	828.5	808.0	803.1
27.5°	869.6	854.9	805.1	784.6	778.7
30°	850.0	831.5	778.7	759.2	748.4
32.5°	825.6	808.0	753.3	730.8	719.1
35°	802.2	780.7	726.9	698.6	686.9
37.5°	773.8	752.3	696.6	668.3	654.6
40°	743.5	722.0	667.3	634.1	616.5
42.5°	710.3	690.8	635.1	595.0	560.8
45°	673.2	656.6	600.9	541.3	471.9
47.5°	639.0	623.4	566.7	489.5	418.2
50°	602.8	588.2	531.5	440.6	382.0
52.5°	562.8	552.0	493.4	398.6	351.7
55°	524.7	516.9	455.3	361.5	324.4
57.5°	484.6	476.8	417.2	326.3	297.0
60°	447.5	439.7	379.1	295.1	271.6
62.5°	410.4	399.6	342.0	264.8	245.2
65°	369.3	360.5	302.9	235.5	222.8
67.5°	328.3	320.5	266.7	208.1	199.3
70°	287.3	280.4	229.6	181.7	176.8
72.5°	247.2	238.4	196.4	155.4	153.4
75°	205.2	198.3	159.3	127.0	123.1
77.5°	165.1	159.3	125.1	96.7	93.8
80°	126.0	120.2	89.9	70.3	73.3
82.5°	92.8	85.0	60.6	54.7	57.6
85°	56.7	49.8	39.1	37.1	37.1
87.5°	19.5	18.6	17.6	20.5	21.5
90°	2.9	13.7	23.4	29.3	31.3
92.5°	16.6	24.4	32.2	38.1	40.1
95°	31.3	42.0	47.9	70.3	76.2
97.5°	43.0	55.7	62.5	83.0	88.9
100°	54.7	66.4	87.9	98.7	105.5
102.5°	64.5	73.3	103.6	125.1	129.0
105°	73.3	76.2	109.4	146.6	155.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	87.9	78.2	117.2	159.3	174.9
115°	90.9	77.2	116.3	160.2	175.9
117.5°	90.9	77.2	113.3	160.2	175.9
120°	88.9	78.2	109.4	158.3	174.9
122.5°	87.0	76.2	105.5	154.4	171.0
125°	84.0	74.3	100.6	147.5	166.1
127.5°	79.1	76.2	95.8	138.7	157.3
130°	75.2	77.2	89.9	129.9	148.5
132.5°	72.3	75.2	84.0	120.2	136.8
135°	68.4	74.3	81.1	109.4	126.0
137.5°	65.5	71.3	76.2	99.7	113.3
140°	62.5	69.4	71.3	87.0	98.7
142.5°	58.6	66.4	67.4	81.1	86.0
145°	55.7	64.5	70.3	75.2	80.1
147.5°	52.8	60.6	68.4	69.4	74.3
150°	51.8	56.7	65.5	66.4	68.4
152.5°	50.8	54.7	60.6	66.4	67.4
155°	50.8	53.7	57.6	62.5	63.5
157.5°	49.8	53.7	55.7	59.6	60.6
160°	49.8	52.8	54.7	57.6	58.6
162.5°	49.8	52.8	53.7	56.7	57.6
165°	49.8	51.8	53.7	55.7	55.7
167.5°	49.8	51.8	52.8	54.7	54.7
170°	49.8	50.8	52.8	53.7	53.7
172.5°	48.9	50.8	51.8	53.7	53.7
175°	48.9	49.8	50.8	51.8	52.8
177.5°	46.9	49.8	50.8	51.8	50.8
180°	47.9	47.9	47.9	47.9	47.9



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	80.1	77.2	113.3	154.4	167.1
110°	85.0	78.2	116.3	157.3	172.9



(END OF REPORT)