

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: P520623

Luminaire Tested: **4WSLA-75-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520623
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-L940-UPL8-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

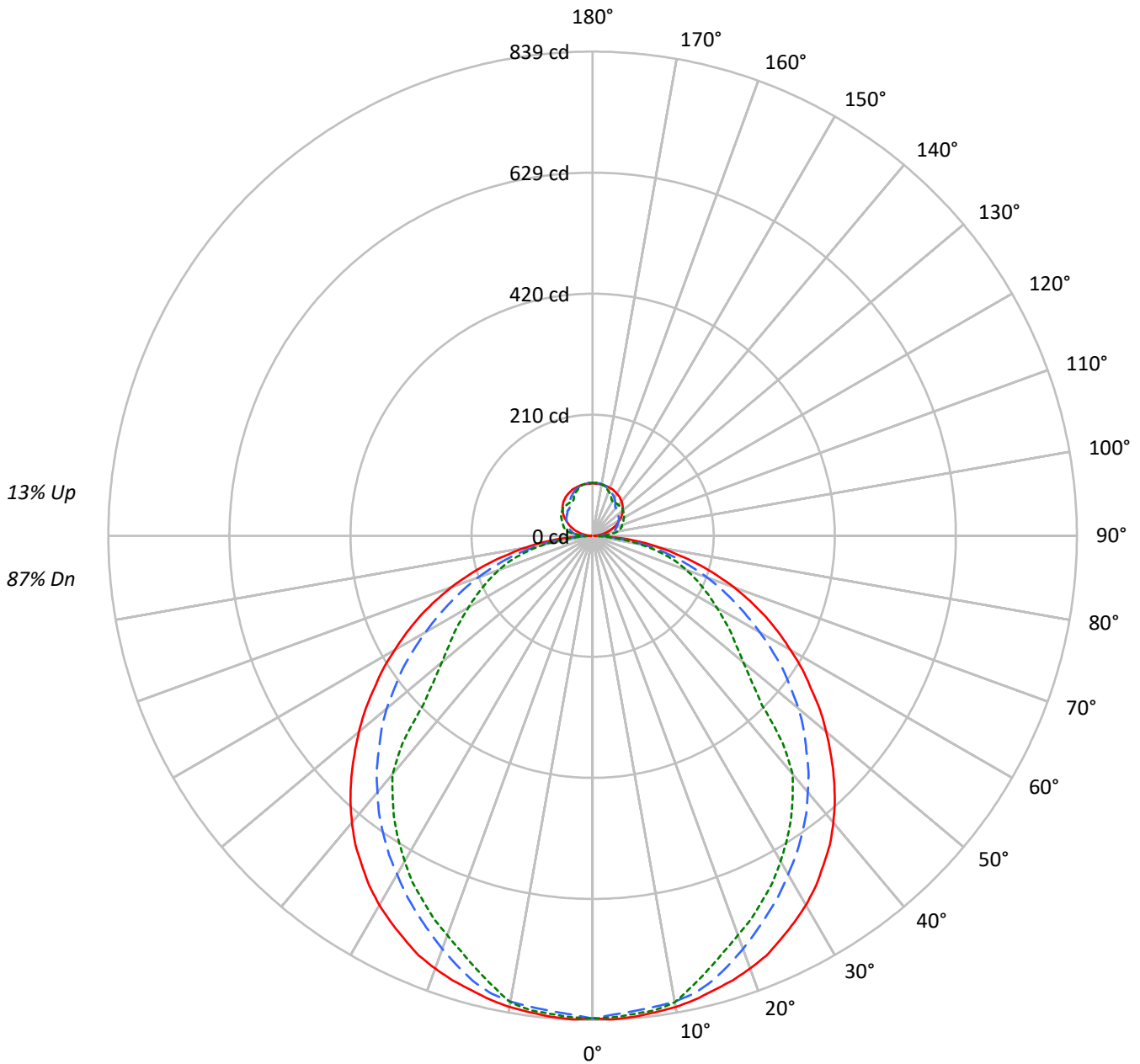
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2603.0 lumens
Efficiency: N/A
Efficacy: 112.2 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_{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°	4519	4467	4493
10°	4532	4479	4486
15°	4539	4452	4332
20°	4570	4363	4218
25°	4581	4281	4138
30°	4592	4210	4046
35°	4578	4151	3937
40°	4558	4076	3788
45°	4497	3984	3160
50°	4423	3899	2852
55°	4336	3772	2744
60°	4261	3602	2668
65°	4199	3449	2667
70°	4090	3314	2708
75°	3903	3152	2728
80°	3654	2836	2535
85°	3347	2007	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.0
10°-20°	225.1	8.6
20°-30°	336.4	12.9
30°-40°	401.5	15.4
40°-50°	401.6	15.4
50°-60°	347.5	13.4
60°-70°	266.7	10.2
70°-80°	163.4	6.3
80°-90°	46.0	1.8
90°-100°	26.0	1.0
100°-110°	41.3	1.6
110°-120°	48.3	1.9
120°-130°	52.1	2.0
130°-140°	51.3	2.0
140°-150°	45.4	1.7
150°-160°	37.4	1.4
160°-170°	25.0	1.0
170°-180°	8.7	0.3
0°-30°	640.7	24.6
0°-40°	1042.2	40.0
0°-60°	1791.3	68.8
0°-90°	2267.5	87.1
90°-120°	115.5	4.4
90°-150°	264.4	10.2
90°-180°	336.0	12.9
0°-180°	2603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	836	834	827	833	832	80
15°	815	814	799	785	777	230
25°	771	762	721	702	697	356
35°	697	679	632	609	599	436
45°	591	574	524	477	415	456
55°	462	451	402	321	292	414
65°	330	318	271	218	209	326
75°	188	178	152	131	131	198
85°	54	44	32	28	28	57
90°	2	8	13	17	18	4
95°	10	20	28	29	29	9
105°	28	29	41	48	50	29
115°	46	38	48	55	59	45
125°	61	49	55	64	66	55
135°	73	66	61	67	71	57
145°	82	78	69	67	70	51
155°	87	85	81	77	76	40
165°	89	90	88	88	88	25
175°	90	92	92	93	93	9
180°	92	92	92	92	92	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.4	836.4	836.4	836.4	836.4
2.5°	838.8	836.4	830.4	836.4	835.2
5°	836.4	834.0	826.8	832.8	831.6
7.5°	832.8	830.4	823.2	830.4	829.2
10°	829.2	826.8	819.6	824.4	820.8
12.5°	823.2	820.8	812.3	806.3	799.1
15°	814.7	813.5	799.1	784.7	777.4
17.5°	807.5	803.9	781.0	764.2	755.8
20°	797.9	791.9	761.8	742.5	736.5
22.5°	787.1	777.4	741.3	723.3	718.5
25°	771.4	761.8	720.9	701.6	696.8
27.5°	755.8	743.7	700.4	681.2	676.3
30°	738.9	722.1	677.5	659.5	651.1
32.5°	719.7	702.8	655.9	635.4	625.8
35°	696.8	678.8	631.8	609.0	599.3
37.5°	675.1	655.9	607.7	582.5	569.2
40°	648.7	629.4	580.1	552.4	539.2
42.5°	621.0	602.9	553.6	519.9	487.4
45°	590.9	574.1	523.5	476.6	415.2
47.5°	559.6	545.2	495.8	432.0	373.1
50°	528.3	513.9	465.7	389.9	340.6
52.5°	497.0	485.0	432.0	355.0	314.1
55°	462.1	451.3	402.0	321.3	292.4
57.5°	430.8	420.0	367.1	293.6	269.6
60°	395.9	386.3	334.6	266.0	247.9
62.5°	363.4	352.6	302.1	241.9	228.7
65°	329.7	317.7	270.8	217.8	209.4
67.5°	294.8	282.8	240.7	196.2	191.4
70°	259.9	250.3	210.6	174.5	172.1
72.5°	223.8	213.0	180.5	154.0	154.0
75°	187.7	178.1	151.6	131.2	131.2
77.5°	150.4	145.6	121.5	107.1	108.3
80°	117.9	111.9	91.5	81.8	81.8
82.5°	86.6	79.4	61.4	54.2	56.6
85°	54.2	44.5	32.5	27.7	27.7
87.5°	16.8	13.2	9.6	10.8	10.8
90°	2.4	8.4	13.2	16.8	18.1
92.5°	6.0	15.6	19.3	22.9	24.1
95°	9.6	20.5	27.7	28.9	28.9
97.5°	13.2	22.9	33.7	38.5	38.5
100°	18.1	24.1	36.1	43.3	44.5
102.5°	22.9	26.5	38.5	45.7	48.1
105°	27.7	28.9	40.9	48.1	50.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	36.1	45.7	54.2	56.6
115°	45.7	38.5	48.1	55.4	59.0
117.5°	49.3	42.1	50.5	57.8	60.2
120°	53.0	44.5	51.7	60.2	62.6
122.5°	57.8	46.9	54.2	61.4	65.0
125°	61.4	49.3	55.4	63.8	66.2
127.5°	65.0	54.2	56.6	65.0	67.4
130°	67.4	59.0	57.8	66.2	68.6
132.5°	71.0	62.6	59.0	67.4	69.8
135°	73.4	66.2	61.4	67.4	71.0
137.5°	75.8	69.8	61.4	67.4	69.8
140°	78.2	73.4	62.6	67.4	69.8
142.5°	79.4	75.8	63.8	67.4	69.8
145°	81.8	78.2	68.6	67.4	69.8
147.5°	83.0	80.6	72.2	67.4	69.8
150°	84.2	83.0	75.8	68.6	68.6
152.5°	85.4	84.2	78.2	73.4	71.0
155°	86.6	85.4	80.6	77.0	75.8
157.5°	87.9	87.9	83.0	80.6	79.4
160°	87.9	89.1	85.4	83.0	81.8
162.5°	89.1	90.3	86.6	85.4	84.2
165°	89.1	90.3	87.9	87.9	87.9
167.5°	90.3	91.5	90.3	89.1	89.1
170°	90.3	91.5	90.3	90.3	90.3
172.5°	90.3	91.5	91.5	91.5	91.5
175°	90.3	91.5	91.5	92.7	92.7
177.5°	90.3	91.5	91.5	91.5	91.5
180°	91.5	91.5	91.5	91.5	91.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	32.5	31.3	42.1	50.5	53.0
110°	36.1	33.7	44.5	51.7	54.2



(END OF REPORT)