

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: P520611

Luminaire Tested: **4WSLA-75-L840-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520611
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-L840-UPL8-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

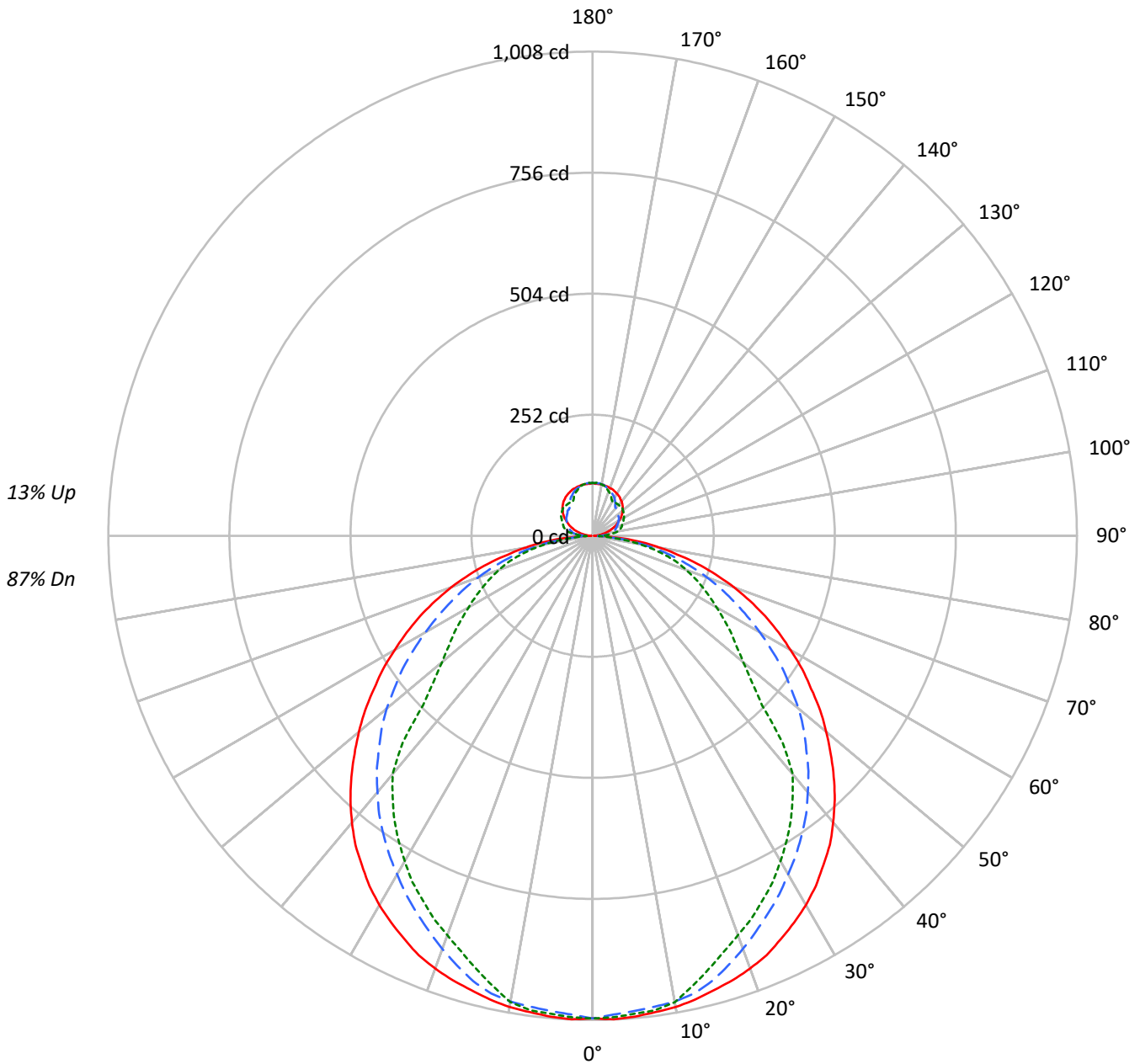
Lumens per Lamp: N/A
Luminaire Lumens: 3127.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	5408	5408	5408
5°	5428	5366	5397
10°	5444	5380	5388
15°	5454	5349	5204
20°	5490	5241	5068
25°	5503	5143	4971
30°	5517	5058	4860
35°	5500	4987	4731
40°	5474	4895	4551
45°	5403	4787	3796
50°	5314	4685	3425
55°	5210	4531	3296
60°	5119	4326	3205
65°	5044	4143	3204
70°	4914	3981	3253
75°	4689	3789	3277
80°	4392	3406	3047
85°	4020	2408	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.0
10°-20°	270.4	8.6
20°-30°	404.1	12.9
30°-40°	482.3	15.4
40°-50°	482.4	15.4
50°-60°	417.5	13.4
60°-70°	320.4	10.2
70°-80°	196.4	6.3
80°-90°	55.3	1.8
90°-100°	31.3	1.0
100°-110°	49.6	1.6
110°-120°	58.0	1.9
120°-130°	62.6	2.0
130°-140°	61.7	2.0
140°-150°	54.6	1.7
150°-160°	44.9	1.4
160°-170°	30.0	1.0
170°-180°	10.5	0.3
0°-30°	769.6	24.6
0°-40°	1252.0	40.0
0°-60°	2151.9	68.8
0°-90°	2724.0	87.1
90°-120°	138.8	4.4
90°-150°	317.7	10.2
90°-180°	403.0	12.9
0°-180°	3127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1005	1002	993	1000	999	96
15°	979	977	960	943	934	277
25°	927	915	866	843	837	428
35°	837	815	759	732	720	524
45°	710	690	629	572	499	547
55°	555	542	483	386	351	498
65°	396	382	325	262	252	391
75°	226	214	182	158	158	238
85°	65	54	39	33	33	68
90°	3	10	16	20	22	5
95°	12	25	33	35	35	11
105°	33	35	49	58	61	35
115°	55	46	58	66	71	54
125°	74	59	66	77	80	66
135°	88	80	74	81	85	68
145°	98	94	82	81	84	61
155°	104	103	97	92	91	48
165°	107	108	106	106	106	30
175°	108	110	110	111	111	10
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	1007.7	1004.8	997.6	1004.8	1003.3
5°	1004.8	1001.9	993.2	1000.4	999.0
7.5°	1000.4	997.6	988.9	997.6	996.1
10°	996.1	993.2	984.5	990.3	986.0
12.5°	988.9	986.0	975.9	968.6	960.0
15°	978.8	977.3	960.0	942.6	933.9
17.5°	970.1	965.7	938.3	918.0	907.9
20°	958.5	951.3	915.1	892.0	884.8
22.5°	945.5	933.9	890.6	868.9	863.1
25°	926.7	915.1	866.0	842.9	837.1
27.5°	907.9	893.5	841.4	818.3	812.5
30°	887.7	867.4	813.9	792.3	782.1
32.5°	864.5	844.3	787.9	763.3	751.8
35°	837.1	815.4	759.0	731.5	720.0
37.5°	811.1	787.9	730.1	699.7	683.8
40°	779.2	756.1	696.8	663.6	647.7
42.5°	746.0	724.3	665.0	624.6	585.5
45°	709.9	689.6	628.9	572.5	498.8
47.5°	672.3	654.9	595.6	519.0	448.2
50°	634.7	617.3	559.5	468.4	409.1
52.5°	597.1	582.6	519.0	426.5	377.3
55°	555.2	542.1	482.9	386.0	351.3
57.5°	517.6	504.6	440.9	352.8	323.8
60°	475.6	464.1	401.9	319.5	297.8
62.5°	436.6	423.6	362.9	290.6	274.7
65°	396.1	381.7	325.3	261.7	251.6
67.5°	354.2	339.7	289.1	235.7	229.9
70°	312.3	300.7	253.0	209.6	206.7
72.5°	268.9	255.9	216.9	185.1	185.1
75°	225.5	214.0	182.2	157.6	157.6
77.5°	180.7	174.9	146.0	128.7	130.1
80°	141.7	134.5	109.9	98.3	98.3
82.5°	104.1	95.4	73.7	65.1	67.9
85°	65.1	53.5	39.0	33.3	33.3
87.5°	20.2	15.9	11.6	13.0	13.0
90°	2.9	10.1	15.9	20.2	21.7
92.5°	7.2	18.8	23.1	27.5	28.9
95°	11.6	24.6	33.3	34.7	34.7
97.5°	15.9	27.5	40.5	46.3	46.3
100°	21.7	28.9	43.4	52.0	53.5
102.5°	27.5	31.8	46.3	54.9	57.8
105°	33.3	34.7	49.2	57.8	60.7



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CATALOG NUMBER: 4WSLA-75-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.2	43.4	54.9	65.1	67.9
115°	54.9	46.3	57.8	66.5	70.8
117.5°	59.3	50.6	60.7	69.4	72.3
120°	63.6	53.5	62.2	72.3	75.2
122.5°	69.4	56.4	65.1	73.7	78.1
125°	73.7	59.3	66.5	76.6	79.5
127.5°	78.1	65.1	67.9	78.1	81.0
130°	81.0	70.8	69.4	79.5	82.4
132.5°	85.3	75.2	70.8	81.0	83.9
135°	88.2	79.5	73.7	81.0	85.3
137.5°	91.1	83.9	73.7	81.0	83.9
140°	94.0	88.2	75.2	81.0	83.9
142.5°	95.4	91.1	76.6	81.0	83.9
145°	98.3	94.0	82.4	81.0	83.9
147.5°	99.8	96.9	86.7	81.0	83.9
150°	101.2	99.8	91.1	82.4	82.4
152.5°	102.6	101.2	94.0	88.2	85.3
155°	104.1	102.6	96.9	92.5	91.1
157.5°	105.5	105.5	99.8	96.9	95.4
160°	105.5	107.0	102.6	99.8	98.3
162.5°	107.0	108.4	104.1	102.6	101.2
165°	107.0	108.4	105.5	105.5	105.5
167.5°	108.4	109.9	108.4	107.0	107.0
170°	108.4	109.9	108.4	108.4	108.4
172.5°	108.4	109.9	109.9	109.9	109.9
175°	108.4	109.9	109.9	111.3	111.3
177.5°	108.4	109.9	109.9	109.9	109.9
180°	109.9	109.9	109.9	109.9	109.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	39.0	37.6	50.6	60.7	63.6
110°	43.4	40.5	53.5	62.2	65.1



(END OF REPORT)