

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: P520605

Luminaire Tested: **4WSLA-75-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520605
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-L830-UPL8-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

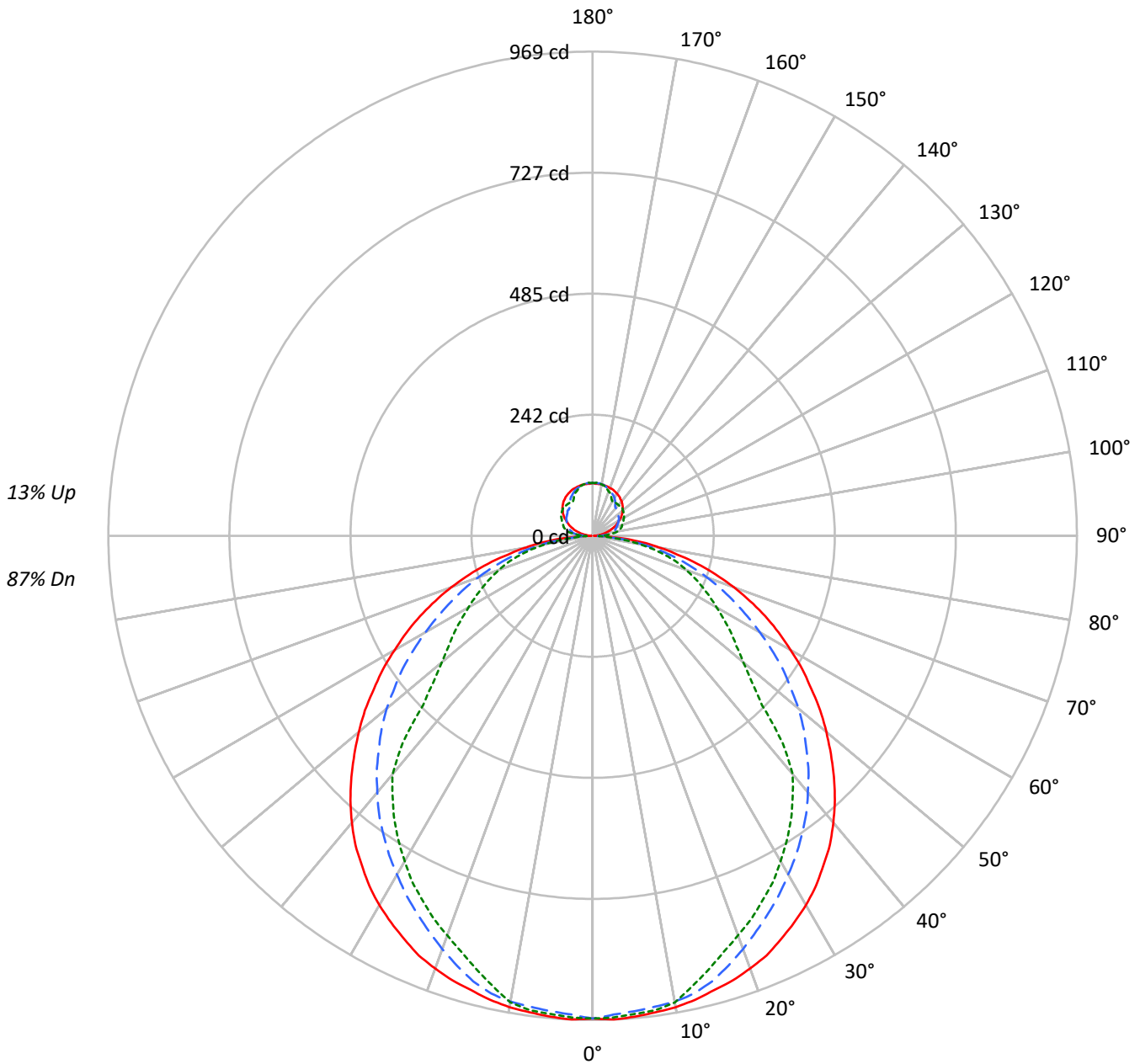
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3007.0 lumens
Efficiency: N/A
Efficacy: 129.6 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°	5200	5200	5200
5°	5220	5160	5190
10°	5235	5174	5181
15°	5244	5143	5004
20°	5279	5040	4873
25°	5292	4945	4780
30°	5305	4864	4674
35°	5289	4796	4549
40°	5264	4708	4376
45°	5195	4603	3650
50°	5110	4505	3294
55°	5010	4357	3170
60°	4923	4160	3083
65°	4851	3983	3081
70°	4725	3829	3128
75°	4510	3643	3150
80°	4221	3276	2929
85°	3866	2316	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.0
10°-20°	260.1	8.6
20°-30°	388.6	12.9
30°-40°	463.8	15.4
40°-50°	463.9	15.4
50°-60°	401.5	13.4
60°-70°	308.1	10.2
70°-80°	188.8	6.3
80°-90°	53.2	1.8
90°-100°	30.0	1.0
100°-110°	47.7	1.6
110°-120°	55.8	1.9
120°-130°	60.2	2.0
130°-140°	59.3	2.0
140°-150°	52.5	1.7
150°-160°	43.2	1.4
160°-170°	28.9	1.0
170°-180°	10.1	0.3
0°-30°	740.1	24.6
0°-40°	1203.9	40.0
0°-60°	2069.3	68.8
0°-90°	2619.4	87.1
90°-120°	133.5	4.4
90°-150°	305.5	10.2
90°-180°	388.0	12.9
0°-180°	3007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	966	963	955	962	961	92
15°	941	940	923	906	898	266
25°	891	880	833	810	805	411
35°	805	784	730	704	692	504
45°	683	663	605	550	480	526
55°	534	521	464	371	338	479
65°	381	367	313	252	242	376
75°	217	206	175	152	152	229
85°	63	51	38	32	32	65
90°	3	10	15	20	21	4
95°	11	24	32	33	33	11
105°	32	33	47	56	58	34
115°	53	44	56	64	68	52
125°	71	57	64	74	76	63
135°	85	76	71	78	82	65
145°	94	90	79	78	81	59
155°	100	99	93	89	88	46
165°	103	104	102	102	102	29
175°	104	106	106	107	107	10
180°	106	106	106	106	106	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.2	966.2	966.2	966.2	966.2
2.5°	969.0	966.2	959.3	966.2	964.8
5°	966.2	963.4	955.1	962.0	960.7
7.5°	962.0	959.3	950.9	959.3	957.9
10°	957.9	955.1	946.8	952.3	948.1
12.5°	950.9	948.1	938.4	931.5	923.1
15°	941.2	939.8	923.1	906.4	898.1
17.5°	932.9	928.7	902.3	882.8	873.1
20°	921.7	914.8	880.0	857.8	850.8
22.5°	909.2	898.1	856.4	835.5	830.0
25°	891.1	880.0	832.8	810.5	805.0
27.5°	873.1	859.2	809.1	786.9	781.3
30°	853.6	834.1	782.7	761.9	752.1
32.5°	831.4	811.9	757.7	734.0	722.9
35°	805.0	784.1	729.9	703.5	692.3
37.5°	779.9	757.7	702.1	672.9	657.6
40°	749.3	727.1	670.1	638.1	622.8
42.5°	717.4	696.5	639.5	600.6	563.0
45°	682.6	663.1	604.8	550.5	479.6
47.5°	646.5	629.8	572.8	499.1	431.0
50°	610.3	593.6	538.0	450.4	393.4
52.5°	574.2	560.3	499.1	410.1	362.9
55°	533.9	521.3	464.3	371.2	337.8
57.5°	497.7	485.2	424.0	339.2	311.4
60°	457.4	446.3	386.5	307.2	286.4
62.5°	419.9	407.3	349.0	279.4	264.1
65°	380.9	367.0	312.8	251.6	241.9
67.5°	340.6	326.7	278.0	226.6	221.0
70°	300.3	289.2	243.3	201.6	198.8
72.5°	258.6	246.1	208.5	178.0	178.0
75°	216.9	205.8	175.2	151.5	151.5
77.5°	173.8	168.2	140.4	123.7	125.1
80°	136.2	129.3	105.7	94.5	94.5
82.5°	100.1	91.8	70.9	62.6	65.3
85°	62.6	51.4	37.5	32.0	32.0
87.5°	19.5	15.3	11.1	12.5	12.5
90°	2.8	9.7	15.3	19.5	20.9
92.5°	7.0	18.1	22.2	26.4	27.8
95°	11.1	23.6	32.0	33.4	33.4
97.5°	15.3	26.4	38.9	44.5	44.5
100°	20.9	27.8	41.7	50.0	51.4
102.5°	26.4	30.6	44.5	52.8	55.6
105°	32.0	33.4	47.3	55.6	58.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.3	41.7	52.8	62.6	65.3
115°	52.8	44.5	55.6	64.0	68.1
117.5°	57.0	48.7	58.4	66.7	69.5
120°	61.2	51.4	59.8	69.5	72.3
122.5°	66.7	54.2	62.6	70.9	75.1
125°	70.9	57.0	64.0	73.7	76.5
127.5°	75.1	62.6	65.3	75.1	77.9
130°	77.9	68.1	66.7	76.5	79.2
132.5°	82.0	72.3	68.1	77.9	80.6
135°	84.8	76.5	70.9	77.9	82.0
137.5°	87.6	80.6	70.9	77.9	80.6
140°	90.4	84.8	72.3	77.9	80.6
142.5°	91.8	87.6	73.7	77.9	80.6
145°	94.5	90.4	79.2	77.9	80.6
147.5°	95.9	93.1	83.4	77.9	80.6
150°	97.3	95.9	87.6	79.2	79.2
152.5°	98.7	97.3	90.4	84.8	82.0
155°	100.1	98.7	93.1	89.0	87.6
157.5°	101.5	101.5	95.9	93.1	91.8
160°	101.5	102.9	98.7	95.9	94.5
162.5°	102.9	104.3	100.1	98.7	97.3
165°	102.9	104.3	101.5	101.5	101.5
167.5°	104.3	105.7	104.3	102.9	102.9
170°	104.3	105.7	104.3	104.3	104.3
172.5°	104.3	105.7	105.7	105.7	105.7
175°	104.3	105.7	105.7	107.0	107.0
177.5°	104.3	105.7	105.7	105.7	105.7
180°	105.7	105.7	105.7	105.7	105.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	37.5	36.1	48.7	58.4	61.2
110°	41.7	38.9	51.4	59.8	62.6



(END OF REPORT)