

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: P520621

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

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-75-L940-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

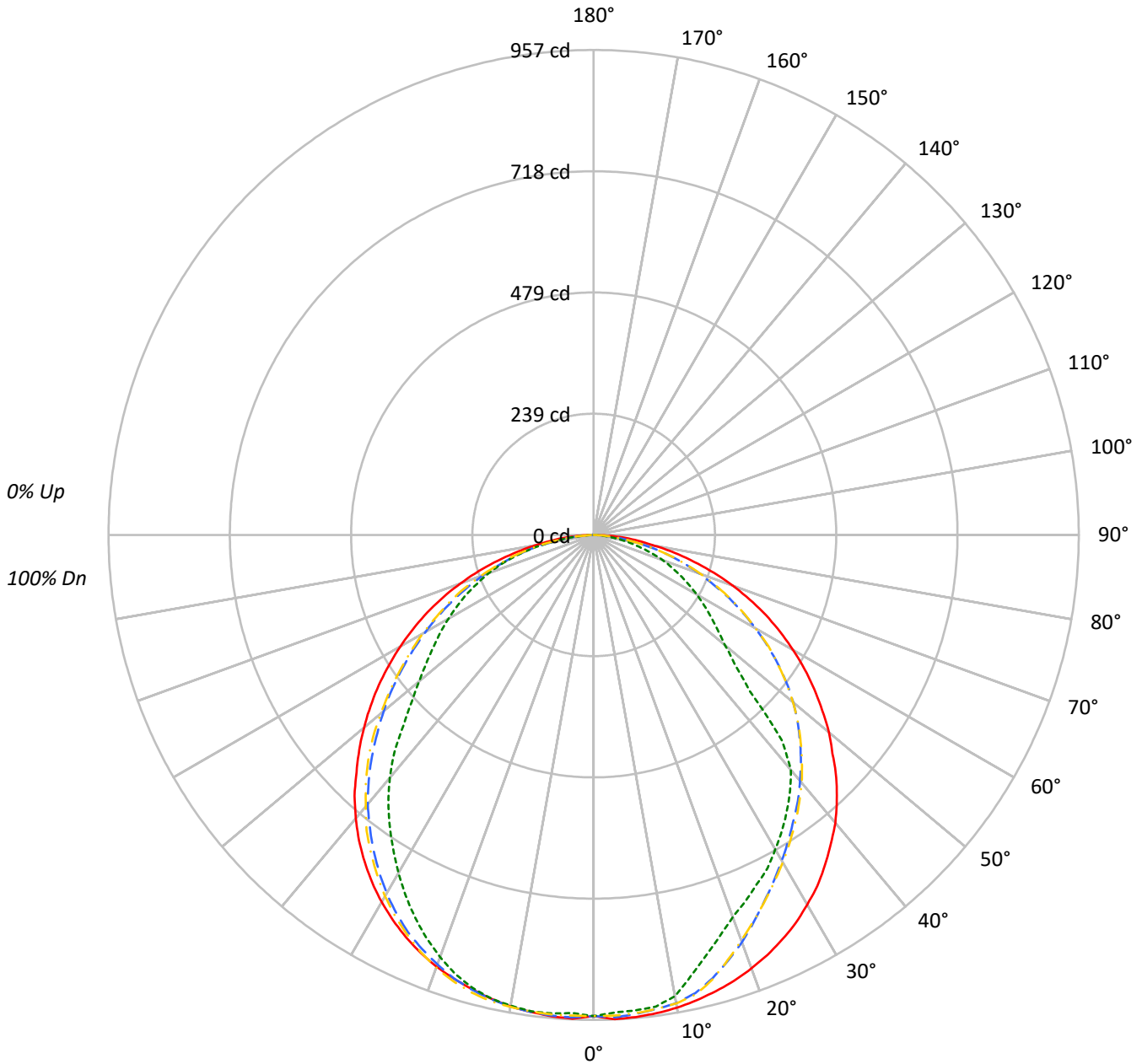
Lumens per Lamp: N/A
Luminaire Lumens: 2547.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5110	5110	5110	5110
5°	5159	5088	5151	5121
10°	5178	5050	5164	5155
15°	5193	4782	5171	5154
20°	5213	4594	5193	5076
25°	5230	4519	5203	4948
30°	5236	4454	5198	4786
35°	5227	4367	5174	4608
40°	5210	4251	5128	4395
45°	5152	3303	5036	4032
50°	5075	2828	4952	3762
55°	4985	2648	4856	3618
60°	4890	2527	4743	3559
65°	4774	2394	4613	3516
70°	4585	2277	4392	3462
75°	4269	2002	4067	3294
80°	3787	1674	3552	2796
85°	3588	1198	3143	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.5
10°-20°	257.3	10.1
20°-30°	384.5	15.1
30°-40°	457.7	18.0
40°-50°	457.5	18.0
50°-60°	393.6	15.5
60°-70°	296.3	11.6
70°-80°	168.8	6.6
80°-90°	41.1	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	732.0	28.7
0°-40°	1189.7	46.7
0°-60°	2040.8	80.1
0°-90°	2547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2547.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	949	949	949	949	949	
5°	955	942	954	948	955	91
15°	932	858	928	925	932	263
25°	881	761	876	833	881	406
35°	796	665	788	701	796	498
45°	677	434	662	530	677	521
55°	531	282	518	386	531	475
65°	375	188	362	276	375	370
75°	205	96	196	158	205	217
85°	58	19	51	26	58	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4
2.5°	956.6	947.9	953.0	951.5	943.3	946.4	949.4	946.4	955.5	947.4	953.0
5°	955.0	945.9	948.9	945.9	941.8	942.8	947.4	944.3	953.5	944.9	952.0
7.5°	952.0	940.8	943.8	942.3	938.7	939.3	943.8	941.3	949.4	941.3	949.4
10°	947.4	935.7	938.2	931.6	924.0	929.6	938.7	936.2	944.9	935.7	944.9
12.5°	940.3	928.6	926.0	904.1	890.4	901.0	929.1	929.1	937.2	928.6	938.2
15°	932.1	919.4	905.6	872.5	858.3	869.0	907.7	920.9	928.0	919.4	929.1
17.5°	922.4	907.7	881.2	842.5	829.2	839.9	879.7	908.7	917.9	908.7	917.3
20°	910.2	892.9	855.2	810.9	802.2	811.9	851.6	893.9	906.7	895.4	901.6
22.5°	897.0	876.1	826.2	786.4	782.4	788.5	824.6	875.6	892.4	880.7	884.7
25°	880.7	856.2	797.1	764.0	761.0	764.5	798.2	854.2	876.1	863.9	865.4
27.5°	863.4	836.9	769.6	745.2	742.1	743.7	771.7	830.2	857.2	845.0	842.5
30°	842.5	813.9	742.1	719.7	716.7	722.3	746.2	805.8	836.4	824.1	816.5
32.5°	821.6	789.0	715.1	697.8	691.7	696.8	719.7	780.3	813.4	800.7	788.0
35°	795.6	762.5	687.1	669.8	664.7	670.3	693.2	753.8	787.5	774.7	757.4
37.5°	768.6	734.5	661.7	645.9	636.7	643.3	666.2	726.3	760.5	747.2	725.8
40°	741.6	704.9	633.1	616.8	605.1	614.8	638.2	697.3	729.9	717.7	693.2
42.5°	710.0	675.4	605.1	582.2	549.1	580.2	608.2	668.3	698.3	686.6	657.1
45°	676.9	643.8	575.6	520.1	434.0	525.1	577.6	637.7	661.7	650.4	618.4
47.5°	639.2	611.2	545.5	461.0	377.4	466.1	546.5	608.7	627.0	614.8	579.1
50°	606.1	578.6	513.9	411.0	337.7	416.7	513.4	576.1	591.4	580.2	540.4
52.5°	568.4	544.5	479.8	366.7	308.2	372.3	478.8	542.5	554.7	541.4	501.7
55°	531.3	509.9	443.6	327.5	282.2	332.6	442.6	507.8	517.5	502.2	461.0
57.5°	493.6	474.2	406.5	292.4	258.2	298.0	409.0	472.2	478.8	459.4	421.7
60°	454.3	438.0	368.8	261.3	234.8	265.9	367.8	436.5	440.6	419.7	383.5
62.5°	415.1	400.4	331.1	232.8	210.9	235.8	333.6	398.8	401.4	381.5	344.3
65°	374.9	361.1	294.4	202.7	188.0	207.8	297.0	359.6	362.2	339.7	306.1
67.5°	333.1	321.9	255.2	179.8	166.0	181.3	260.3	319.9	321.4	299.5	268.9
70°	291.4	281.7	220.6	154.8	144.7	155.4	224.1	276.1	279.1	255.7	231.2
72.5°	248.6	240.9	186.9	128.9	119.7	128.9	189.0	235.8	237.9	218.5	194.6
75°	205.3	199.7	152.8	103.4	96.3	102.9	153.8	195.6	195.6	177.3	158.4
77.5°	163.5	159.4	117.2	79.5	74.4	78.4	117.7	154.8	153.8	139.6	124.8
80°	122.2	119.2	84.0	57.6	54.0	56.0	84.0	114.6	114.6	104.4	86.6
82.5°	87.6	84.0	55.5	37.7	35.7	36.7	54.5	80.0	81.5	73.9	58.6
85°	58.1	49.9	30.1	20.9	19.4	19.9	28.5	46.4	50.9	42.8	30.6
87.5°	25.5	16.8	7.6	3.1	1.5	2.0	6.1	14.8	19.4	12.7	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	949.4	949.4	949.4	949.4	949.4	949.4
2.5°	952.5	944.3	947.4	949.4	947.4	956.6
5°	951.5	947.9	947.4	949.9	945.9	955.0
7.5°	949.9	947.9	947.4	948.4	943.3	952.0
10°	946.4	943.3	944.3	945.9	939.3	947.4
12.5°	939.8	936.7	937.2	942.3	933.1	940.3
15°	928.6	925.0	928.6	934.2	926.0	932.1
17.5°	913.8	908.2	914.3	923.0	916.8	922.4
20°	894.9	886.3	892.9	908.7	903.1	910.2
22.5°	872.0	861.3	867.9	890.9	889.3	897.0
25°	846.0	833.3	842.5	870.5	873.5	880.7
27.5°	817.0	802.7	815.0	848.1	855.2	863.4
30°	785.4	770.1	784.4	823.1	833.8	842.5
32.5°	752.8	736.0	752.3	795.1	810.4	821.6
35°	718.7	701.4	719.7	766.1	784.4	795.6
37.5°	682.0	665.2	685.1	735.5	757.4	768.6
40°	644.3	625.5	647.9	699.3	728.4	741.6
42.5°	605.6	582.2	609.7	665.2	696.8	710.0
45°	562.3	529.7	566.9	629.1	662.2	676.9
47.5°	519.0	486.4	524.1	590.3	626.0	639.2
50°	477.3	449.3	479.3	548.1	589.3	606.1
52.5°	439.1	416.1	441.6	506.8	551.6	568.4
55°	403.4	385.6	406.5	466.1	511.9	531.3
57.5°	369.8	358.6	372.8	427.3	475.2	493.6
60°	338.2	330.6	340.8	389.1	431.9	454.3
62.5°	307.1	303.1	310.7	348.9	391.7	415.1
65°	277.1	276.1	280.1	313.8	349.4	374.9
67.5°	247.0	246.5	249.1	276.6	308.2	333.1
70°	217.0	220.0	218.5	236.3	266.9	291.4
72.5°	186.4	191.0	188.5	199.7	229.2	248.6
75°	152.3	158.4	153.3	166.0	184.4	205.3
77.5°	117.2	123.8	117.7	128.9	148.7	163.5
80°	84.0	90.2	85.1	93.7	111.0	122.2
82.5°	53.0	57.6	53.5	62.1	79.5	87.6
85°	23.4	26.0	27.0	33.6	48.9	58.1
87.5°	1.0	0.5	1.0	6.6	17.3	25.5
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)