

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: P520603

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

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520603
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-L830-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

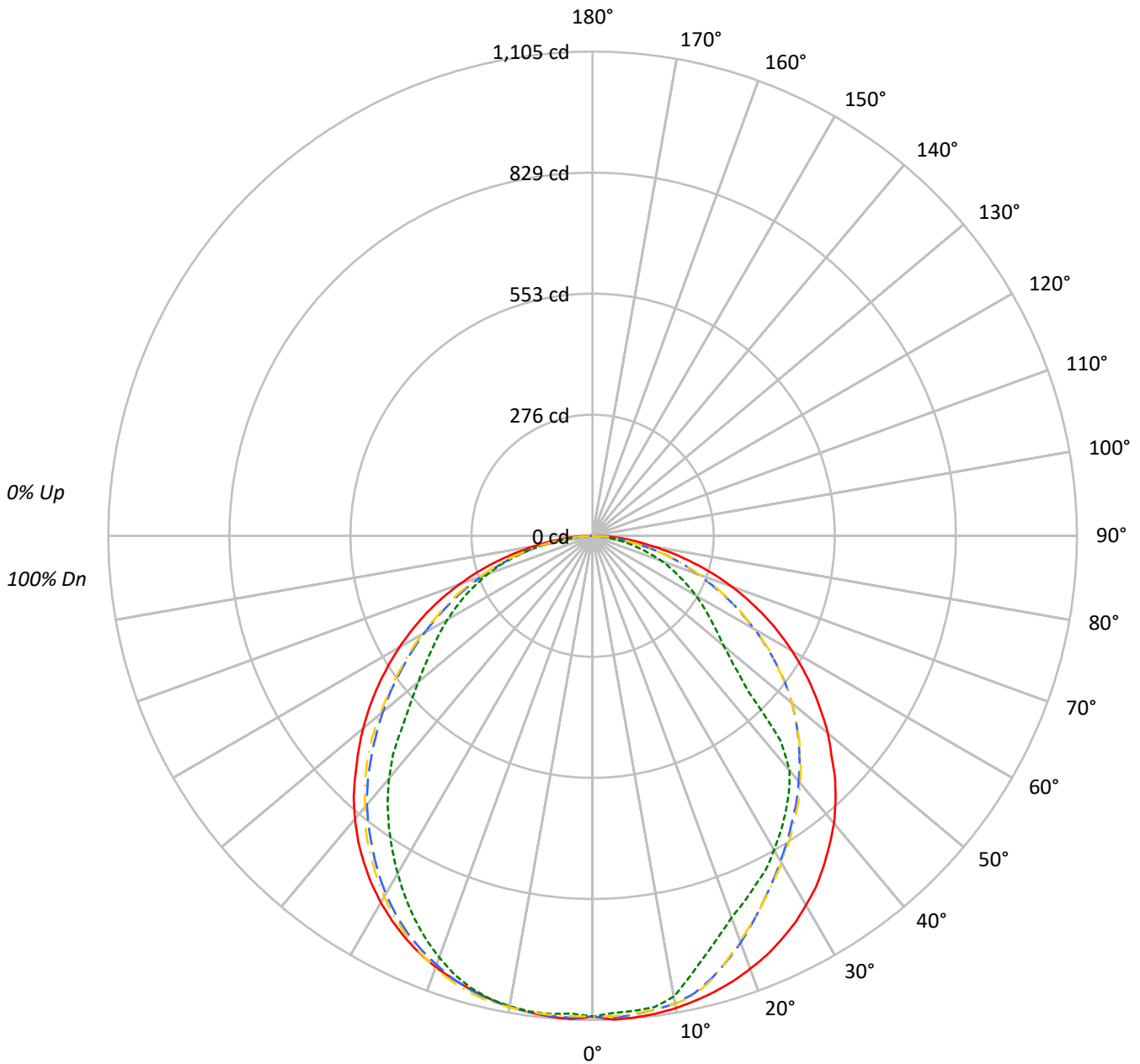
Lumens per Lamp: N/A
Luminaire Lumens: 2943.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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°	5905	5905	5905	5905
5°	5962	5879	5952	5917
10°	5983	5834	5967	5957
15°	6001	5526	5975	5955
20°	6023	5309	6000	5865
25°	6043	5222	6011	5718
30°	6050	5146	6006	5530
35°	6040	5047	5978	5324
40°	6020	4912	5925	5077
45°	5954	3816	5819	4659
50°	5864	3267	5721	4346
55°	5760	3060	5611	4180
60°	5651	2920	5480	4112
65°	5517	2766	5330	4062
70°	5297	2629	5075	4002
75°	4932	2312	4700	3805
80°	4379	1934	4104	3230
85°	4143	1383	3637	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	3.5
10°-20°	297.3	10.1
20°-30°	444.3	15.1
30°-40°	528.8	18.0
40°-50°	528.6	18.0
50°-60°	454.8	15.5
60°-70°	342.4	11.6
70°-80°	195.1	6.6
80°-90°	47.5	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°	845.8	28.7
0°-40°	1374.6	46.7
0°-60°	2358.1	80.1
0°-90°	2943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1097	1097	1097	1097	1097	
5°	1104	1088	1102	1095	1104	105
15°	1077	992	1072	1069	1077	304
25°	1018	879	1012	963	1018	469
35°	919	768	910	810	919	575
45°	782	501	764	612	782	602
55°	614	326	598	446	614	549
65°	433	217	418	319	433	428
75°	237	111	226	183	237	251
85°	67	22	59	30	67	73
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°	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1
2.5°	1105.3	1095.3	1101.2	1099.4	1090.0	1093.5	1097.1	1093.5	1104.1	1094.7	1101.2
5°	1103.5	1092.9	1096.5	1092.9	1088.2	1089.4	1094.7	1091.2	1101.8	1091.8	1100.0
7.5°	1100.0	1087.0	1090.6	1088.8	1084.7	1085.3	1090.6	1087.6	1097.1	1087.6	1097.1
10°	1094.7	1081.2	1084.1	1076.5	1067.6	1074.1	1084.7	1081.8	1091.8	1081.2	1091.8
12.5°	1086.5	1072.9	1070.0	1044.7	1028.8	1041.1	1073.5	1073.5	1082.9	1072.9	1084.1
15°	1077.0	1062.3	1046.4	1008.2	991.7	1004.1	1048.8	1064.1	1072.3	1062.3	1073.5
17.5°	1065.9	1048.8	1018.2	973.5	958.2	970.5	1016.4	1050.0	1060.6	1050.0	1060.0
20°	1051.7	1031.7	988.2	937.0	927.0	938.1	984.1	1032.9	1047.6	1034.7	1041.7
22.5°	1036.4	1012.3	954.6	908.7	904.0	911.1	952.9	1011.7	1031.1	1017.6	1022.3
25°	1017.6	989.3	921.1	882.8	879.3	883.4	922.3	987.0	1012.3	998.2	999.9
27.5°	997.6	967.0	889.3	861.0	857.5	859.3	891.6	959.3	990.5	976.4	973.5
30°	973.5	940.5	857.5	831.6	828.1	834.6	862.2	931.1	966.4	952.3	943.4
32.5°	949.3	911.7	826.3	806.3	799.2	805.1	831.6	901.7	939.9	925.2	910.5
35°	919.3	881.1	794.0	773.9	768.1	774.5	801.0	871.1	909.9	895.2	875.2
37.5°	888.1	848.7	764.5	746.3	735.7	743.3	769.8	839.3	878.7	863.4	838.7
40°	856.9	814.6	731.6	712.7	699.2	710.4	737.5	805.7	843.4	829.3	801.0
42.5°	820.4	780.4	699.2	672.7	634.5	670.4	702.7	772.2	806.9	793.4	759.2
45°	782.2	743.9	665.1	600.9	501.4	606.8	667.4	736.9	764.5	751.6	714.5
47.5°	738.6	706.3	630.3	532.6	436.1	538.5	631.5	703.3	724.5	710.4	669.2
50°	700.4	668.6	593.8	475.0	390.2	481.4	593.3	665.6	683.3	670.4	624.4
52.5°	656.8	629.2	554.4	423.8	356.1	430.2	553.2	626.8	640.9	625.6	579.7
55°	613.9	589.1	512.6	378.4	326.1	384.3	511.4	586.8	598.0	580.3	532.6
57.5°	570.3	547.9	469.7	337.8	298.4	344.3	472.6	545.6	553.2	530.9	487.3
60°	525.0	506.2	426.1	301.9	271.3	307.2	424.9	504.4	509.1	485.0	443.2
62.5°	479.7	462.6	382.6	269.0	243.7	272.5	385.5	460.8	463.8	440.8	397.9
65°	433.2	417.3	340.2	234.2	217.2	240.1	343.1	415.5	418.5	392.6	353.7
67.5°	384.9	372.0	294.9	207.8	191.9	209.5	300.7	369.6	371.4	346.1	310.8
70°	336.6	325.5	254.8	178.9	167.1	179.5	259.0	319.0	322.5	295.5	267.2
72.5°	287.2	278.4	216.0	148.9	138.3	148.9	218.4	272.5	274.9	252.5	224.8
75°	237.2	230.7	176.6	119.5	111.2	118.9	177.7	226.0	226.0	204.8	183.0
77.5°	188.9	184.2	135.4	91.8	85.9	90.6	136.0	178.9	177.7	161.3	144.2
80°	141.3	137.7	97.1	66.5	62.4	64.7	97.1	132.4	132.4	120.7	100.1
82.5°	101.2	97.1	64.2	43.6	41.2	42.4	63.0	92.4	94.2	85.3	67.7
85°	67.1	57.7	34.7	24.1	22.4	23.0	33.0	53.6	58.9	49.4	35.3
87.5°	29.4	19.4	8.8	3.5	1.8	2.4	7.1	17.1	22.4	14.7	4.7
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°	1097.1	1097.1	1097.1	1097.1	1097.1	1097.1
2.5°	1100.6	1091.2	1094.7	1097.1	1094.7	1105.3
5°	1099.4	1095.3	1094.7	1097.6	1092.9	1103.5
7.5°	1097.6	1095.3	1094.7	1095.9	1090.0	1100.0
10°	1093.5	1090.0	1091.2	1092.9	1085.3	1094.7
12.5°	1085.9	1082.3	1082.9	1088.8	1078.2	1086.5
15°	1072.9	1068.8	1072.9	1079.4	1070.0	1077.0
17.5°	1055.9	1049.4	1056.4	1066.4	1059.4	1065.9
20°	1034.1	1024.1	1031.7	1050.0	1043.5	1051.7
22.5°	1007.6	995.2	1002.9	1029.4	1027.6	1036.4
25°	977.6	962.9	973.5	1005.8	1009.4	1017.6
27.5°	944.0	927.6	941.7	979.9	988.2	997.6
30°	907.5	889.9	906.4	951.1	963.5	973.5
32.5°	869.9	850.5	869.3	918.7	936.4	949.3
35°	830.4	810.4	831.6	885.2	906.4	919.3
37.5°	788.1	768.6	791.6	849.9	875.2	888.1
40°	744.5	722.7	748.6	808.1	841.6	856.9
42.5°	699.8	672.7	704.5	768.6	805.1	820.4
45°	649.8	612.1	655.1	726.9	765.1	782.2
47.5°	599.7	562.1	605.6	682.1	723.3	738.6
50°	551.5	519.1	553.8	633.3	680.9	700.4
52.5°	507.3	480.8	510.3	585.6	637.4	656.8
55°	466.1	445.5	469.7	538.5	591.5	613.9
57.5°	427.3	414.3	430.8	493.8	549.1	570.3
60°	390.8	382.0	393.7	449.7	499.1	525.0
62.5°	354.9	350.2	359.0	403.2	452.6	479.7
65°	320.2	319.0	323.7	362.5	403.7	433.2
67.5°	285.4	284.9	287.8	319.6	356.1	384.9
70°	250.7	254.3	252.5	273.1	308.4	336.6
72.5°	215.4	220.7	217.8	230.7	264.8	287.2
75°	176.0	183.0	177.2	191.9	213.1	237.2
77.5°	135.4	143.0	136.0	148.9	171.9	188.9
80°	97.1	104.2	98.3	108.3	128.3	141.3
82.5°	61.2	66.5	61.8	71.8	91.8	101.2
85°	27.1	30.0	31.2	38.8	56.5	67.1
87.5°	1.2	0.6	1.2	7.7	20.0	29.4
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)