

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: P520609

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

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520609
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-L840-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

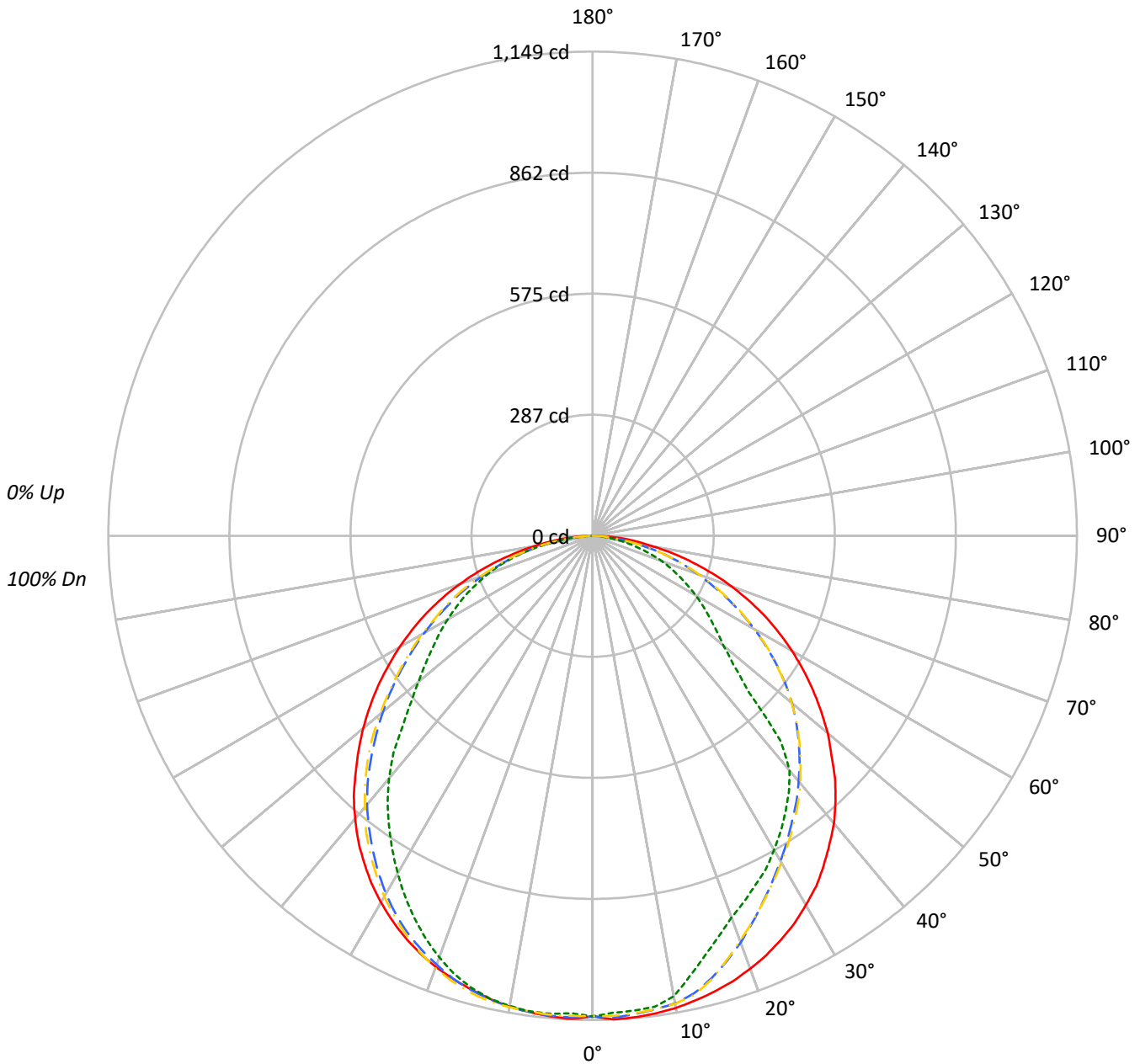
Lumens per Lamp: N/A
Luminaire Lumens: 3059.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P520609

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

Luminous Intensity Polar Plot





TEST NUMBER: P520609

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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°	6137	6137	6137	6137
5°	6197	6111	6187	6151
10°	6218	6064	6202	6192
15°	6238	5743	6210	6190
20°	6261	5518	6237	6096
25°	6281	5427	6248	5943
30°	6288	5349	6243	5748
35°	6278	5245	6214	5535
40°	6258	5106	6159	5278
45°	6188	3967	6049	4842
50°	6095	3396	5946	4518
55°	5987	3180	5832	4345
60°	5874	3035	5696	4273
65°	5733	2874	5540	4223
70°	5506	2733	5275	4159
75°	5126	2404	4885	3957
80°	4550	2008	4265	3357
85°	4304	1433	3779	1927



TEST NUMBER: P520609

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.5
10°-20°	309.0	10.1
20°-30°	461.8	15.1
30°-40°	549.7	18.0
40°-50°	549.4	18.0
50°-60°	472.8	15.5
60°-70°	355.8	11.6
70°-80°	202.8	6.6
80°-90°	49.4	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°	879.1	28.7
0°-40°	1428.8	46.7
0°-60°	2451.0	80.1
0°-90°	3059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3059.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1140	1140	1140	1140	1140	
5°	1147	1131	1145	1138	1147	109
15°	1120	1031	1115	1111	1120	316
25°	1058	914	1052	1001	1058	488
35°	956	798	946	842	956	598
45°	813	521	795	636	813	626
55°	638	339	622	463	638	570
65°	450	226	435	332	450	445
75°	246	116	235	190	246	261
85°	70	23	61	31	70	76
90°	0	0	0	0	0	



TEST NUMBER: P520609

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3
2.5°	1148.9	1138.5	1144.6	1142.7	1133.0	1136.6	1140.3	1136.6	1147.6	1137.8	1144.6
5°	1147.0	1136.0	1139.7	1136.0	1131.1	1132.3	1137.8	1134.2	1145.2	1134.8	1143.4
7.5°	1143.4	1129.9	1133.6	1131.7	1127.4	1128.1	1133.6	1130.5	1140.3	1130.5	1140.3
10°	1137.8	1123.8	1126.8	1118.9	1109.7	1116.4	1127.4	1124.4	1134.8	1123.8	1134.8
12.5°	1129.3	1115.2	1112.2	1085.8	1069.3	1082.2	1115.8	1115.8	1125.6	1115.2	1126.8
15°	1119.5	1104.2	1087.7	1047.9	1030.8	1043.6	1090.1	1106.0	1114.6	1104.2	1115.8
17.5°	1107.9	1090.1	1058.3	1011.8	995.9	1008.8	1056.5	1091.4	1102.4	1091.4	1101.8
20°	1093.2	1072.4	1027.1	973.9	963.5	975.1	1022.8	1073.6	1088.9	1075.4	1082.8
22.5°	1077.3	1052.2	992.3	944.5	939.6	947.0	990.4	1051.6	1071.8	1057.7	1062.6
25°	1057.7	1028.3	957.4	917.6	913.9	918.2	958.6	1025.9	1052.2	1037.5	1039.4
27.5°	1036.9	1005.1	924.3	895.0	891.3	893.1	926.8	997.1	1029.6	1014.9	1011.8
30°	1011.8	977.6	891.3	864.4	860.7	867.5	896.2	967.8	1004.5	989.8	980.6
32.5°	986.7	947.6	858.9	838.1	830.8	836.9	864.4	937.2	977.0	961.7	946.4
35°	955.5	915.8	825.2	804.4	798.3	805.1	832.6	905.4	945.8	930.5	909.7
37.5°	923.1	882.1	794.7	775.7	764.7	772.6	800.2	872.3	913.3	897.4	871.7
40°	890.7	846.7	760.4	740.8	726.8	738.4	766.5	837.5	876.6	861.9	832.6
42.5°	852.8	811.2	726.8	699.2	659.5	696.8	730.4	802.6	838.7	824.6	789.2
45°	813.0	773.2	691.3	624.6	521.2	630.7	693.7	765.9	794.7	781.2	742.7
47.5°	767.7	734.1	655.2	553.6	453.3	559.7	656.4	731.0	753.1	738.4	695.6
50°	728.0	694.9	617.3	493.7	405.6	500.4	616.6	691.9	710.2	696.8	649.1
52.5°	682.7	654.0	576.3	440.5	370.1	447.2	575.0	651.5	666.2	650.3	602.6
55°	638.1	612.4	532.8	393.4	338.9	399.5	531.6	609.9	621.5	603.2	553.6
57.5°	592.8	569.5	488.2	351.1	310.2	357.9	491.2	567.1	575.0	551.8	506.5
60°	545.7	526.1	442.9	313.8	282.0	319.3	441.7	524.3	529.2	504.1	460.6
62.5°	498.6	480.8	397.6	279.6	253.3	283.2	400.7	479.0	482.1	458.2	413.5
65°	450.2	433.7	353.6	243.5	225.7	249.6	356.6	431.9	435.0	408.0	367.7
67.5°	400.1	386.6	306.5	215.9	199.4	217.8	312.6	384.2	386.0	359.7	323.0
70°	349.9	338.3	264.9	186.0	173.7	186.6	269.2	331.6	335.2	307.1	277.7
72.5°	298.5	289.4	224.5	154.8	143.8	154.8	227.0	283.2	285.7	262.4	233.7
75°	246.5	239.8	183.5	124.2	115.6	123.6	184.7	234.9	234.9	212.9	190.3
77.5°	196.4	191.5	140.7	95.4	89.3	94.2	141.3	186.0	184.7	167.6	149.9
80°	146.8	143.1	100.9	69.1	64.8	67.3	100.9	137.6	137.6	125.4	104.0
82.5°	105.2	100.9	66.7	45.3	42.8	44.0	65.5	96.0	97.9	88.7	70.4
85°	69.7	60.0	36.1	25.1	23.2	23.9	34.3	55.7	61.2	51.4	36.7
87.5°	30.6	20.2	9.2	3.7	1.8	2.4	7.3	17.7	23.2	15.3	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P520609

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3
2.5°	1144.0	1134.2	1137.8	1140.3	1137.8	1148.9
5°	1142.7	1138.5	1137.8	1140.9	1136.0	1147.0
7.5°	1140.9	1138.5	1137.8	1139.1	1133.0	1143.4
10°	1136.6	1133.0	1134.2	1136.0	1128.1	1137.8
12.5°	1128.7	1125.0	1125.6	1131.7	1120.7	1129.3
15°	1115.2	1110.9	1115.2	1121.9	1112.2	1119.5
17.5°	1097.5	1090.7	1098.1	1108.5	1101.1	1107.9
20°	1074.8	1064.4	1072.4	1091.4	1084.6	1093.2
22.5°	1047.3	1034.5	1042.4	1069.9	1068.1	1077.3
25°	1016.1	1000.8	1011.8	1045.5	1049.1	1057.7
27.5°	981.2	964.1	978.8	1018.6	1027.1	1036.9
30°	943.3	925.0	942.1	988.6	1001.4	1011.8
32.5°	904.2	884.0	903.5	954.9	973.3	986.7
35°	863.2	842.4	864.4	920.1	942.1	955.5
37.5°	819.1	798.9	822.8	883.4	909.7	923.1
40°	773.9	751.2	778.1	839.9	874.8	890.7
42.5°	727.4	699.2	732.3	798.9	836.9	852.8
45°	675.4	636.2	680.9	755.5	795.3	813.0
47.5°	623.4	584.2	629.5	709.0	751.8	767.7
50°	573.2	539.6	575.7	658.2	707.8	728.0
52.5°	527.3	499.8	530.4	608.7	662.5	682.7
55°	484.5	463.1	488.2	559.7	614.8	638.1
57.5°	444.1	430.7	447.8	513.3	570.8	592.8
60°	406.2	397.0	409.3	467.4	518.8	545.7
62.5°	368.9	364.0	373.2	419.0	470.4	498.6
65°	332.8	331.6	336.5	376.8	419.7	450.2
67.5°	296.7	296.1	299.1	332.2	370.1	400.1
70°	260.6	264.3	262.4	283.9	320.6	349.9
72.5°	223.9	229.4	226.3	239.8	275.3	298.5
75°	182.9	190.3	184.1	199.4	221.5	246.5
77.5°	140.7	148.7	141.3	154.8	178.6	196.4
80°	100.9	108.3	102.2	112.6	133.4	146.8
82.5°	63.6	69.1	64.2	74.6	95.4	105.2
85°	28.1	31.2	32.4	40.4	58.7	69.7
87.5°	1.2	0.6	1.2	8.0	20.8	30.6
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)