

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563361

Luminaire Tested: **SQ4-PP3-050U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563361
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

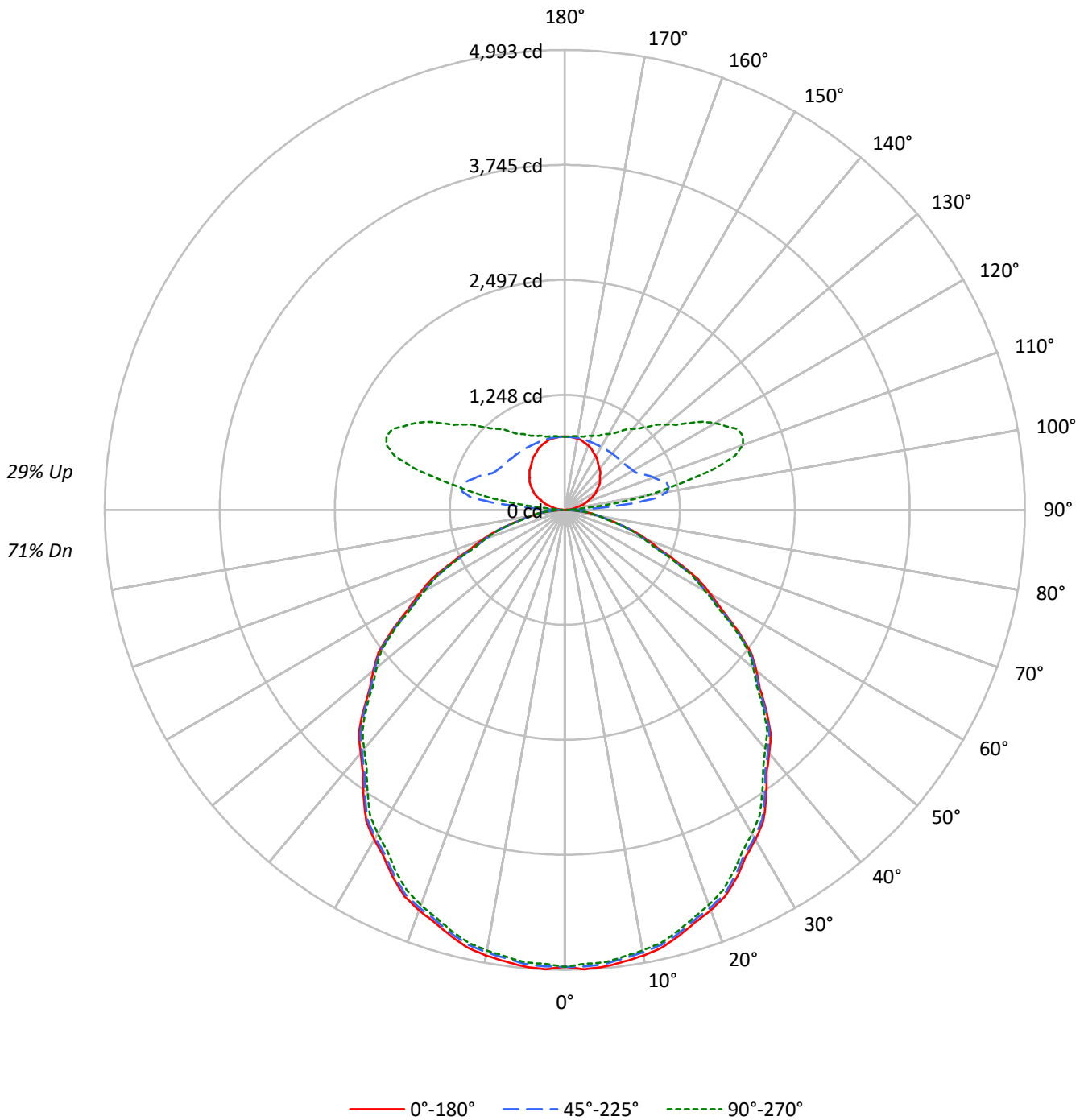
Lumens per Lamp: N/A
Luminaire Lumens: 17894.2 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 167
Input Voltage (V): 120
Input Current (Ain): 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: 24 FT



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Luminous Intensity Polar Plot





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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	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15277	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13844	13757	13599
45°	13466	13371	13239
50°	12982	12899	12774
55°	12311	12147	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7337	7234	7131
80°	6470	6546	6392
85°	5064	5522	5522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.2	2.6
10°-20°	1339.6	7.5
20°-30°	2006.6	11.2
30°-40°	2353.6	13.2
40°-50°	2360.9	13.2
50°-60°	2014.1	11.3
60°-70°	1313.5	7.3
70°-80°	659.0	3.7
80°-90°	185.4	1.0
90°-100°	381.7	2.1
100°-110°	1037.0	5.8
110°-120°	1066.3	6.0
120°-130°	852.5	4.8
130°-140°	669.8	3.7
140°-150°	513.6	2.9
150°-160°	369.4	2.1
160°-170°	225.9	1.3
170°-180°	76.1	0.4
0°-30°	3815.3	21.3
0°-40°	6168.9	34.5
0°-60°	10543.9	58.9
0°-90°	12701.9	71.0
90°-120°	2485.0	13.9
90°-150°	4521.0	25.3
90°-180°	5192.0	29.0
0°-180°	17894.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4962	4962	4962	4962	4962	
5°	4979	4932	4948	4931	4931	473
15°	4788	4741	4762	4744	4735	1351
25°	4409	4358	4379	4340	4335	2028
35°	3809	3771	3783	3740	3735	2379
45°	3096	3075	3074	3044	3044	2384
55°	2296	2288	2266	2252	2248	2040
65°	1357	1331	1300	1292	1296	1354
75°	618	618	609	604	600	670
85°	144	156	156	156	156	169
90°	3	10	18	23	23	9
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4961.5	4961.5	4961.5	4961.5	4961.5
2.5°	4992.9	4952.0	4961.5	4954.1	4933.7
5°	4978.9	4932.2	4948.5	4931.1	4931.1
7.5°	4945.0	4894.0	4910.2	4892.8	4892.0
10°	4913.7	4862.7	4878.9	4861.4	4857.2
12.5°	4868.5	4817.5	4837.2	4816.3	4815.4
15°	4787.6	4740.8	4761.5	4743.9	4735.4
17.5°	4696.3	4645.3	4670.2	4645.8	4642.4
20°	4626.7	4575.7	4600.6	4565.8	4565.8
22.5°	4543.2	4492.2	4520.6	4475.4	4475.4
25°	4409.3	4358.3	4378.9	4339.6	4335.4
27.5°	4250.1	4200.0	4221.4	4177.1	4176.2
30°	4135.3	4088.6	4113.6	4065.7	4061.4
32.5°	4010.1	3966.7	3984.9	3937.0	3932.7
35°	3809.2	3770.9	3783.1	3739.5	3735.3
37.5°	3597.9	3558.8	3572.7	3535.2	3533.5
40°	3448.3	3422.8	3426.6	3395.9	3387.4
42.5°	3309.1	3280.2	3283.9	3253.4	3251.7
45°	3096.1	3074.8	3074.3	3043.9	3043.9
47.5°	2870.0	2853.8	2849.1	2823.8	2823.0
50°	2713.4	2700.7	2696.0	2674.2	2669.9
52.5°	2549.9	2544.0	2529.0	2510.8	2509.9
55°	2296.0	2287.5	2265.5	2252.4	2248.1
57.5°	2020.3	2003.3	1978.5	1959.5	1962.9
60°	1822.0	1805.0	1769.8	1761.1	1761.1
62.5°	1630.7	1610.2	1575.0	1563.0	1569.8
65°	1356.7	1331.2	1300.2	1291.6	1295.8
67.5°	1108.0	1085.0	1051.4	1051.4	1048.0
70°	948.0	935.2	908.8	908.8	908.8
72.5°	805.3	799.4	780.1	780.0	776.6
75°	617.5	617.5	608.8	604.3	600.1
77.5°	462.7	464.4	460.1	455.5	447.9
80°	365.3	373.8	369.6	365.2	360.9
82.5°	274.8	283.3	282.6	274.8	274.0
85°	143.5	156.3	156.5	156.5	156.5
87.5°	38.8	53.9	59.2	60.3	63.7
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)