

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: P563265

Luminaire Tested: **SQ4-PP3-025U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563265
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

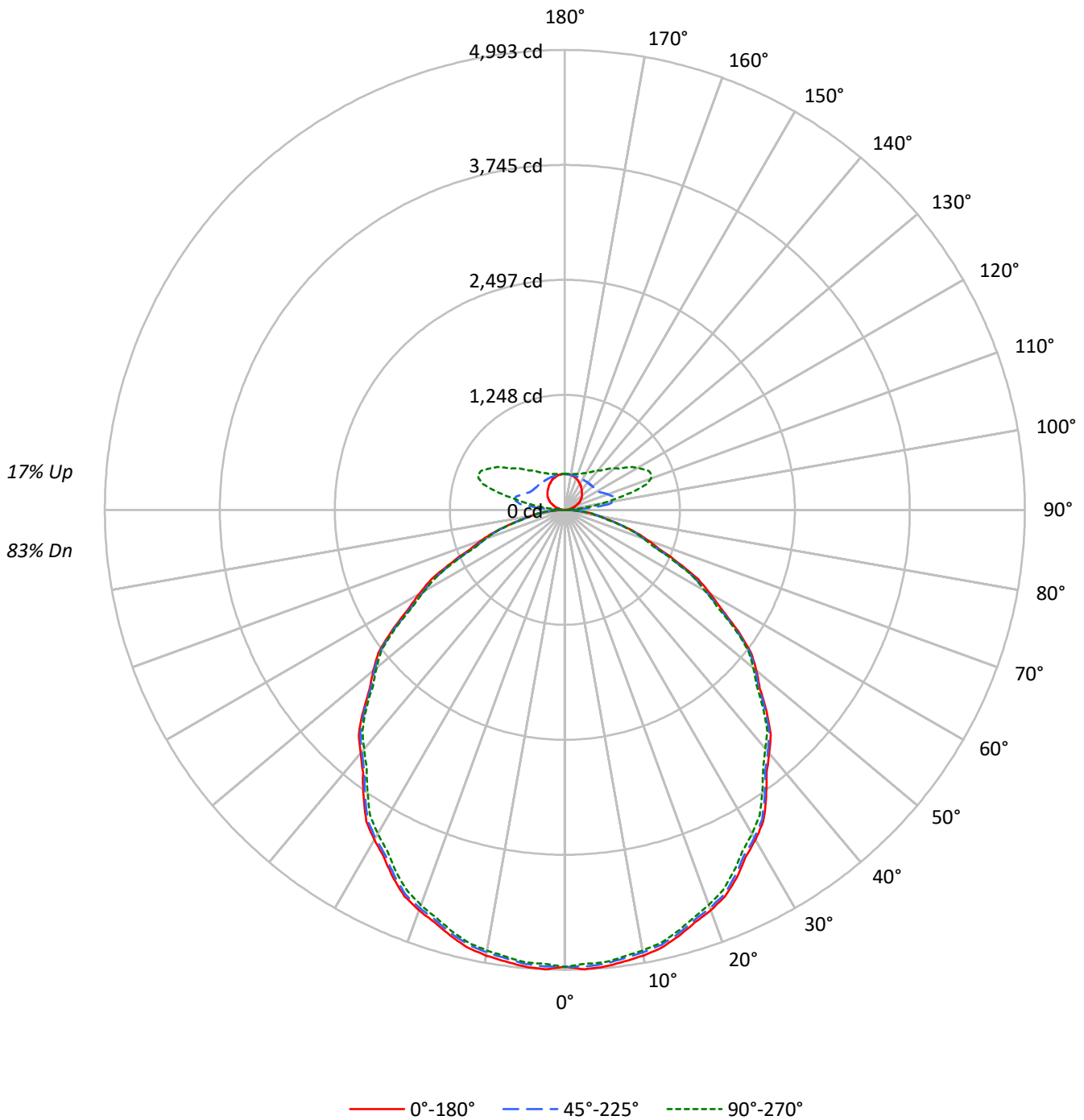
Lumens per Lamp: N/A
Luminaire Lumens: 15218.7 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 156.2
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

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	3.1
10°-20°	1339.6	8.8
20°-30°	2006.6	13.2
30°-40°	2353.6	15.5
40°-50°	2360.9	15.5
50°-60°	2014.1	13.2
60°-70°	1313.5	8.6
70°-80°	659.0	4.3
80°-90°	184.5	1.2
90°-100°	189.3	1.2
100°-110°	497.7	3.3
110°-120°	516.1	3.4
120°-130°	414.0	2.7
130°-140°	324.8	2.1
140°-150°	249.3	1.6
150°-160°	179.6	1.2
160°-170°	109.9	0.7
170°-180°	37.1	0.2
0°-30°	3815.3	25.1
0°-40°	6168.9	40.5
0°-60°	10543.9	69.3
0°-90°	12700.9	83.5
90°-120°	1203.2	7.9
90°-150°	2191.3	14.4
90°-180°	2518.0	16.5
0°-180°	15218.7	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°	2	7	20	10	10	7
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

TEST NUMBER: P563265

CATALOG NUMBER: SQ4-PP3-025U-125D-935-1D-UNV-STD-W-12

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	53.3	59.6	57.7	61.1
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1

TEST NUMBER: P563265

CATALOG NUMBER: SQ4-PP3-025U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)