

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: P563260

Luminaire Tested: **SQ4-PP3-025U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563260
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-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

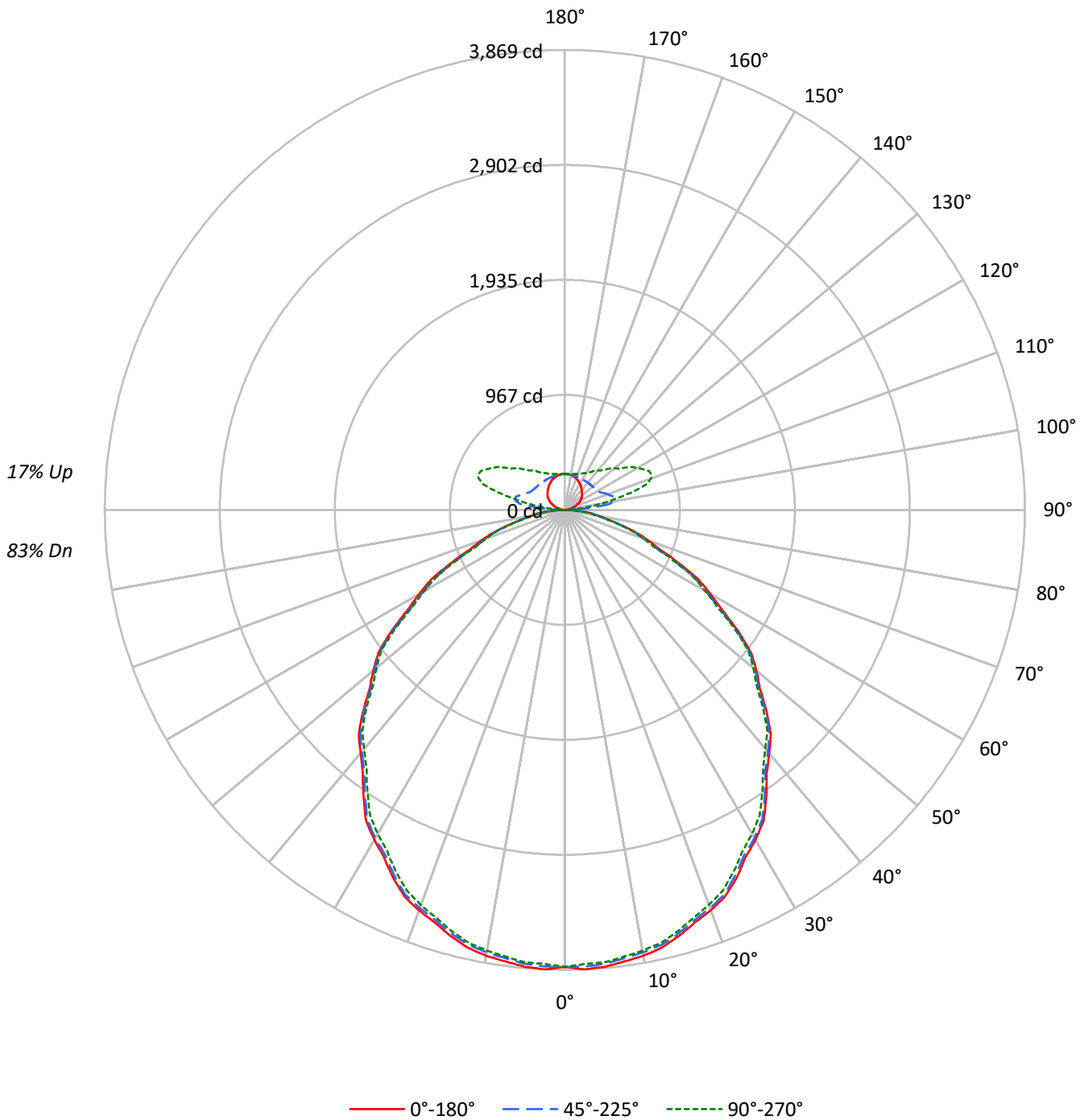
Lumens per Lamp: N/A
Luminaire Lumens: 11794.2 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 101.6
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



TEST NUMBER: P563260
CATALOG NUMBER: SQ4-PP3-025U-125D-840-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563260

CATALOG NUMBER: SQ4-PP3-025U-125D-840-1D-UNV-STD-W-8

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°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17101
30°	17071	16982	16766
35°	16625	16511	16302
40°	16093	15991	15809
45°	15653	15543	15390
50°	15091	14995	14849
55°	14310	14121	14013
60°	13027	12655	12592
65°	11477	10998	10961
70°	9908	9499	9499
75°	8529	8409	8290
80°	7521	7608	7430
85°	5886	6420	6420



TEST NUMBER: P563260

CATALOG NUMBER: SQ4-PP3-025U-125D-840-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	3.1
10°-20°	1038.2	8.8
20°-30°	1555.0	13.2
30°-40°	1824.0	15.5
40°-50°	1829.7	15.5
50°-60°	1560.9	13.2
60°-70°	1018.0	8.6
70°-80°	510.7	4.3
80°-90°	142.9	1.2
90°-100°	146.7	1.2
100°-110°	385.7	3.3
110°-120°	400.0	3.4
120°-130°	320.8	2.7
130°-140°	251.7	2.1
140°-150°	193.2	1.6
150°-160°	139.2	1.2
160°-170°	85.1	0.7
170°-180°	28.8	0.2
0°-30°	2956.8	25.1
0°-40°	4780.8	40.5
0°-60°	8171.3	69.3
0°-90°	9842.9	83.5
90°-120°	932.4	7.9
90°-150°	1698.2	14.4
90°-180°	1951.0	16.5
0°-180°	11794.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3845	3845	3845	3845	3845	
5°	3859	3822	3835	3822	3822	366
15°	3710	3674	3690	3676	3670	1047
25°	3417	3378	3394	3363	3360	1571
35°	2952	2922	2932	2898	2895	1844
45°	2399	2383	2382	2359	2359	1847
55°	1779	1773	1756	1746	1742	1581
65°	1051	1032	1008	1001	1004	1049
75°	478	478	472	468	465	519
85°	111	121	121	121	121	131
90°	2	6	15	8	8	6
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	



TEST NUMBER: P563260

CATALOG NUMBER: SQ4-PP3-025U-125D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3869.4	3837.7	3845.1	3839.3	3823.5
5°	3858.6	3822.3	3835.0	3821.5	3821.5
7.5°	3832.3	3792.8	3805.3	3791.8	3791.2
10°	3808.0	3768.5	3781.1	3767.5	3764.2
12.5°	3773.0	3733.4	3748.7	3732.5	3731.9
15°	3710.3	3674.1	3690.1	3676.5	3669.9
17.5°	3639.5	3600.0	3619.3	3600.4	3597.7
20°	3585.6	3546.1	3565.4	3538.4	3538.4
22.5°	3520.9	3481.4	3503.4	3468.3	3468.3
25°	3417.1	3377.6	3393.5	3363.1	3359.8
27.5°	3293.8	3254.9	3271.5	3237.1	3236.5
30°	3204.8	3168.6	3188.0	3150.8	3147.5
32.5°	3107.8	3074.1	3088.2	3051.1	3047.8
35°	2952.1	2922.4	2931.8	2898.1	2894.8
37.5°	2788.3	2758.0	2768.7	2739.7	2738.4
40°	2672.4	2652.6	2655.5	2631.8	2625.2
42.5°	2564.5	2542.1	2545.0	2521.4	2520.0
45°	2399.4	2382.9	2382.5	2359.0	2359.0
47.5°	2224.2	2211.6	2208.0	2188.4	2187.8
50°	2102.8	2093.0	2089.4	2072.4	2069.1
52.5°	1976.1	1971.5	1960.0	1945.8	1945.1
55°	1779.3	1772.7	1755.7	1745.6	1742.3
57.5°	1565.7	1552.5	1533.3	1518.6	1521.2
60°	1412.0	1398.8	1371.6	1364.8	1364.8
62.5°	1263.7	1247.9	1220.6	1211.3	1216.5
65°	1051.4	1031.7	1007.6	1000.9	1004.2
67.5°	858.7	840.9	814.9	814.8	812.2
70°	734.6	724.8	704.3	704.3	704.3
72.5°	624.1	619.5	604.6	604.5	601.9
75°	478.5	478.5	471.8	468.3	465.1
77.5°	358.6	359.9	356.5	353.0	347.1
80°	283.1	289.7	286.4	283.0	279.7
82.5°	213.0	219.6	219.0	213.0	212.3
85°	111.2	121.1	121.3	121.3	121.3
87.5°	30.0	41.3	46.2	44.7	47.4
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9



TEST NUMBER: P563260

CATALOG NUMBER: SQ4-PP3-025U-125D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)