

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: P565038

Luminaire Tested: **SQ4-PW1-125U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565038
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

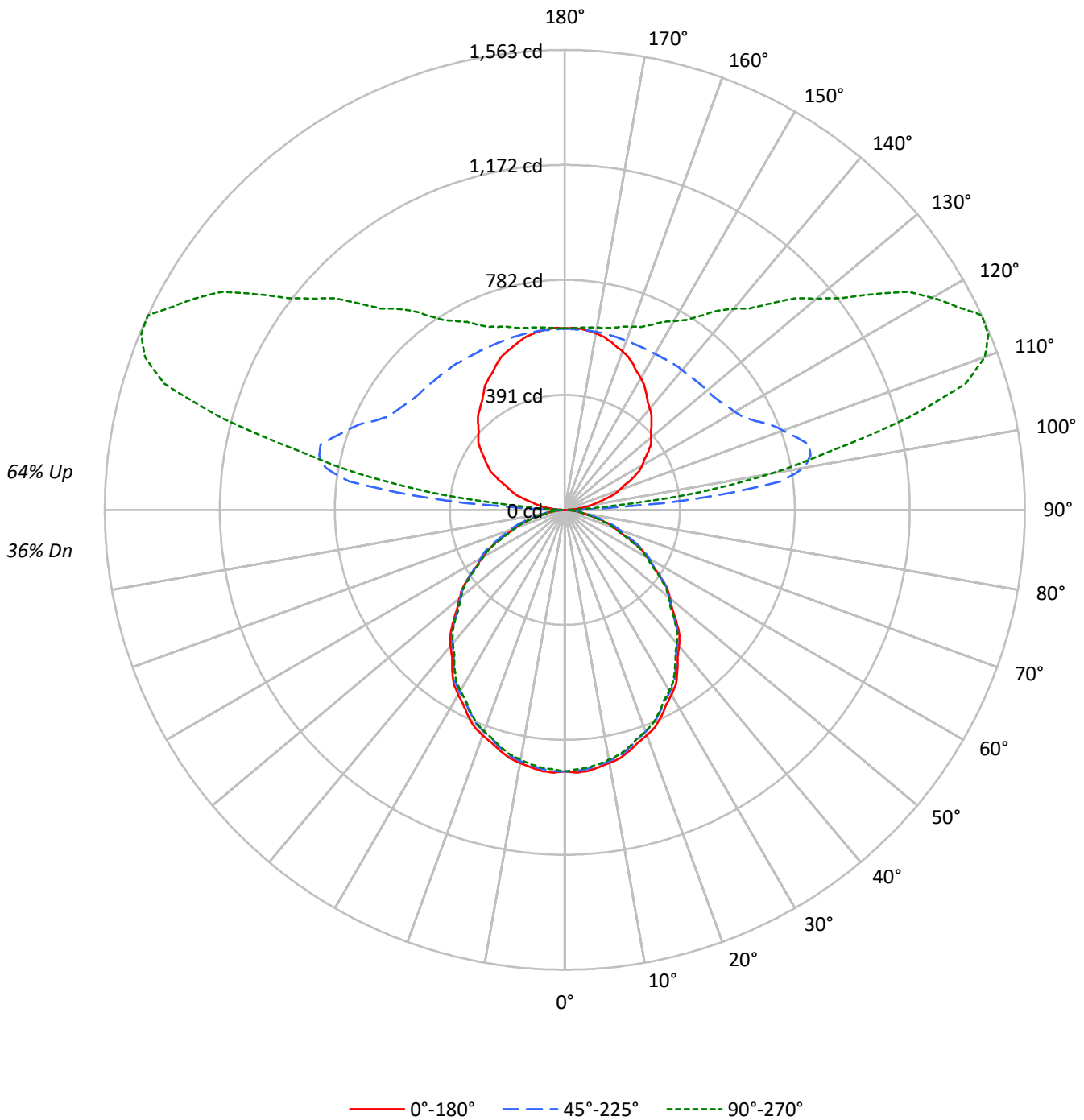
Lumens per Lamp: N/A
Luminaire Lumens: 6241.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8122	8078
15°	8101	8011	7980
20°	8004	7880	7865
25°	7892	7748	7725
30°	7725	7609	7559
35°	7506	7400	7356
40°	7271	7159	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5997	6111	5896
65°	5488	5761	5351
70°	4837	5303	4710
75°	4132	4745	4021
80°	3204	3995	3246
85°	2075	3070	2731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.3
10°-20°	236.3	3.8
20°-30°	350.5	5.6
30°-40°	410.1	6.6
40°-50°	408.3	6.5
50°-60°	352.6	5.6
60°-70°	253.8	4.1
70°-80°	133.1	2.1
80°-90°	34.4	0.6
90°-100°	288.3	4.6
100°-110°	776.6	12.4
110°-120°	815.0	13.1
120°-130°	661.3	10.6
130°-140°	518.7	8.3
140°-150°	398.2	6.4
150°-160°	286.3	4.6
160°-170°	174.9	2.8
170°-180°	59.0	0.9
0°-30°	670.5	10.7
0°-40°	1080.6	17.3
0°-60°	1841.4	29.5
0°-90°	2262.7	36.3
90°-120°	1879.8	30.1
90°-150°	3458.0	55.4
90°-180°	3978.0	63.7
0°-180°	6241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	891	881	884	882	880	84
15°	848	837	839	837	836	239
25°	775	762	761	756	759	356
35°	666	657	657	651	653	417
45°	536	531	529	527	526	413
55°	397	396	397	392	391	354
65°	251	259	264	254	245	249
75°	116	127	133	124	113	124
85°	20	26	29	27	26	26
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.8	888.8	888.8	888.8	888.8
2.5°	893.8	886.4	888.8	886.8	882.5
5°	891.1	881.2	884.1	881.7	880.2
7.5°	882.1	872.9	875.0	872.5	871.6
10°	873.9	864.7	866.9	863.7	862.2
12.5°	864.5	854.7	856.8	853.7	852.8
15°	848.1	837.3	838.7	837.1	835.5
17.5°	829.0	818.1	818.3	815.8	815.5
20°	815.2	803.7	802.6	799.6	801.1
22.5°	800.1	788.0	787.0	782.7	784.8
25°	775.2	762.2	761.1	756.5	758.8
27.5°	746.4	733.6	733.6	727.1	729.5
30°	725.1	712.9	714.2	706.4	709.5
32.5°	702.6	691.5	692.2	684.5	687.5
35°	666.4	657.2	657.0	650.8	653.1
37.5°	629.4	621.3	620.0	616.4	617.1
40°	603.7	596.9	594.4	592.0	592.0
42.5°	576.8	570.5	568.0	566.3	565.7
45°	535.6	531.0	528.6	527.0	526.2
47.5°	494.9	490.6	488.5	487.4	486.6
50°	466.7	463.6	462.8	460.4	459.7
52.5°	438.5	436.7	435.9	432.9	432.1
55°	397.0	396.3	397.0	391.5	390.8
57.5°	353.8	355.0	357.6	350.1	348.3
60°	325.0	328.0	331.2	322.6	319.5
62.5°	295.5	300.4	304.9	295.0	290.7
65°	251.4	259.0	263.9	253.5	245.1
67.5°	208.8	218.3	224.1	212.9	203.4
70°	179.3	190.0	196.6	185.3	174.6
72.5°	153.6	165.6	170.9	160.3	149.6
75°	115.9	126.6	133.1	124.2	112.8
77.5°	82.2	92.3	97.7	90.0	80.5
80°	60.3	71.0	75.2	68.7	61.1
82.5°	42.8	51.6	54.5	50.6	45.4
85°	19.6	25.7	29.0	27.4	25.8
87.5°	5.3	10.2	13.8	14.0	14.6
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2



TEST NUMBER: P565038

CATALOG NUMBER: SQ4-PW1-125U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)