

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: P565034

Luminaire Tested: **SQ4-PW1-125U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565034
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

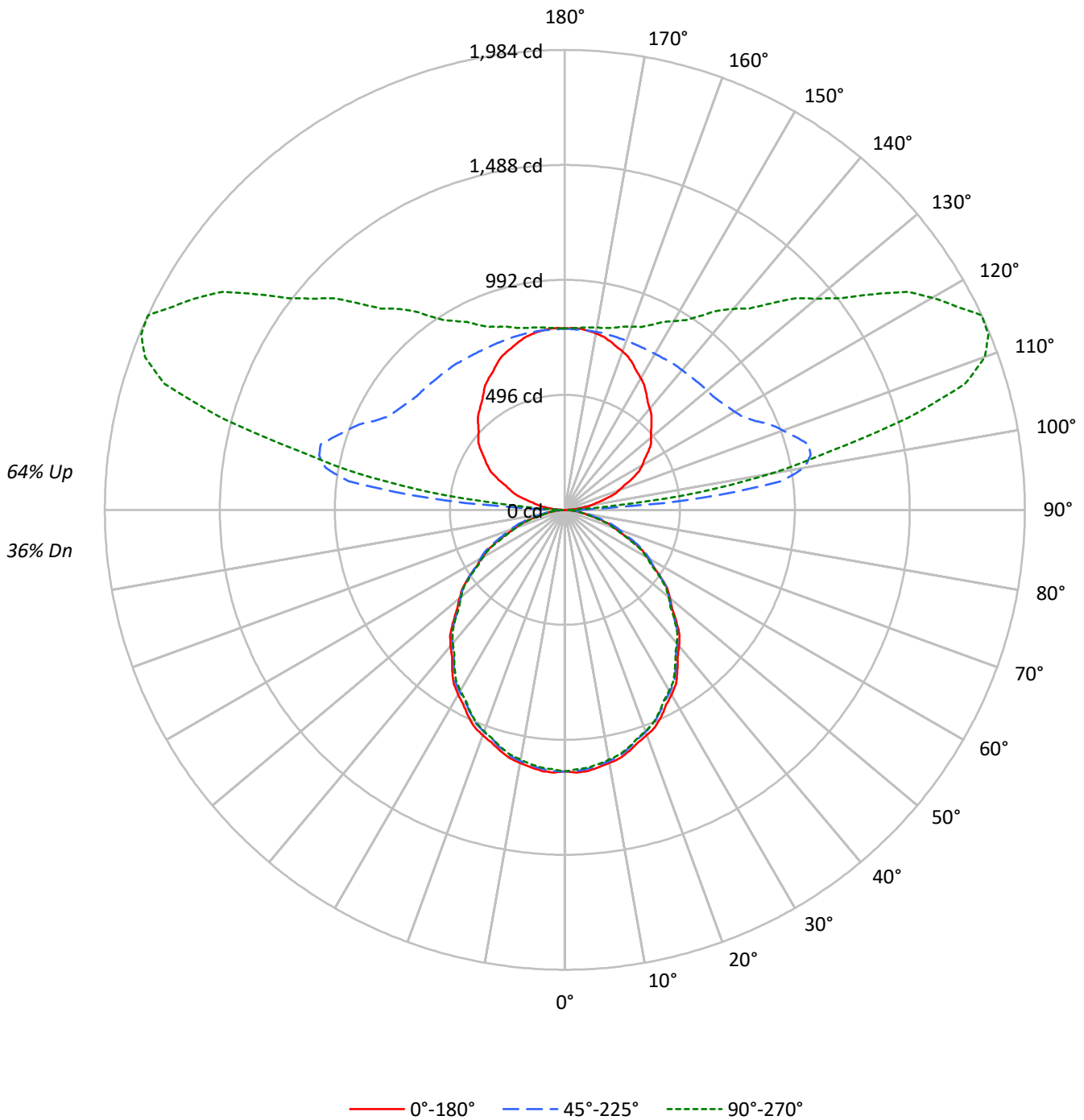
Lumens per Lamp: N/A
Luminaire Lumens: 7921.7 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	10409	10409	10409
5°	10476	10393	10347
10°	10393	10308	10253
15°	10282	10168	10130
20°	10159	10003	9983
25°	10017	9835	9805
30°	9805	9657	9593
35°	9527	9392	9337
40°	9229	9086	9050
45°	8871	8754	8715
50°	8503	8431	8375
55°	8105	8105	7978
60°	7612	7757	7482
65°	6966	7313	6792
70°	6140	6730	5980
75°	5244	6024	5101
80°	4065	5069	4118
85°	2625	3896	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.3
10°-20°	299.9	3.8
20°-30°	444.9	5.6
30°-40°	520.6	6.6
40°-50°	518.2	6.5
50°-60°	447.5	5.6
60°-70°	322.1	4.1
70°-80°	168.9	2.1
80°-90°	43.7	0.6
90°-100°	365.9	4.6
100°-110°	985.7	12.4
110°-120°	1034.5	13.1
120°-130°	839.4	10.6
130°-140°	658.3	8.3
140°-150°	505.4	6.4
150°-160°	363.4	4.6
160°-170°	222.0	2.8
170°-180°	74.9	0.9
0°-30°	851.0	10.7
0°-40°	1371.6	17.3
0°-60°	2337.3	29.5
0°-90°	2872.1	36.3
90°-120°	2386.1	30.1
90°-150°	4389.3	55.4
90°-180°	5050.0	63.7
0°-180°	7921.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1131	1118	1122	1119	1117	107
15°	1076	1063	1064	1062	1061	303
25°	984	968	966	960	963	452
35°	846	834	834	826	829	529
45°	680	674	671	669	668	525
55°	504	503	504	497	496	450
65°	319	329	335	322	311	316
75°	147	161	169	158	143	158
85°	25	33	37	35	33	33
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1134.5	1125.2	1128.2	1125.6	1120.2
5°	1131.1	1118.5	1122.2	1119.2	1117.2
7.5°	1119.6	1107.9	1110.7	1107.4	1106.3
10°	1109.3	1097.6	1100.3	1096.3	1094.4
12.5°	1097.3	1084.9	1087.6	1083.6	1082.4
15°	1076.5	1062.9	1064.5	1062.5	1060.6
17.5°	1052.2	1038.4	1038.7	1035.5	1035.1
20°	1034.7	1020.1	1018.8	1014.9	1016.8
22.5°	1015.6	1000.3	998.9	993.4	996.2
25°	984.0	967.5	966.1	960.2	963.2
27.5°	947.4	931.1	931.1	922.9	926.0
30°	920.4	904.9	906.5	896.6	900.5
32.5°	891.8	877.8	878.7	868.8	872.7
35°	845.9	834.2	833.9	826.1	829.0
37.5°	798.9	788.6	787.0	782.5	783.2
40°	766.3	757.6	754.4	751.4	751.4
42.5°	732.2	724.2	721.0	718.8	718.0
45°	679.9	674.0	670.9	668.9	667.9
47.5°	628.2	622.7	620.0	618.6	617.6
50°	592.4	588.5	587.4	584.4	583.5
52.5°	556.6	554.3	553.2	549.4	548.5
55°	503.9	503.0	503.9	497.0	496.0
57.5°	449.1	450.6	453.8	444.4	442.1
60°	412.5	416.4	420.4	409.4	405.5
62.5°	375.1	381.3	387.1	374.4	369.0
65°	319.1	328.8	335.0	321.8	311.1
67.5°	265.0	277.0	284.5	270.3	258.2
70°	227.6	241.2	249.5	235.3	221.7
72.5°	195.0	210.2	216.9	203.5	189.8
75°	147.1	160.7	169.0	157.7	143.1
77.5°	104.4	117.2	124.0	114.2	102.2
80°	76.5	90.1	95.4	87.2	77.5
82.5°	54.3	65.5	69.2	64.3	57.6
85°	24.8	32.6	36.8	34.7	32.8
87.5°	6.8	13.0	17.5	17.7	18.5
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)