

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: P562402

Luminaire Tested: **SQ4-PW1-125U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562402
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

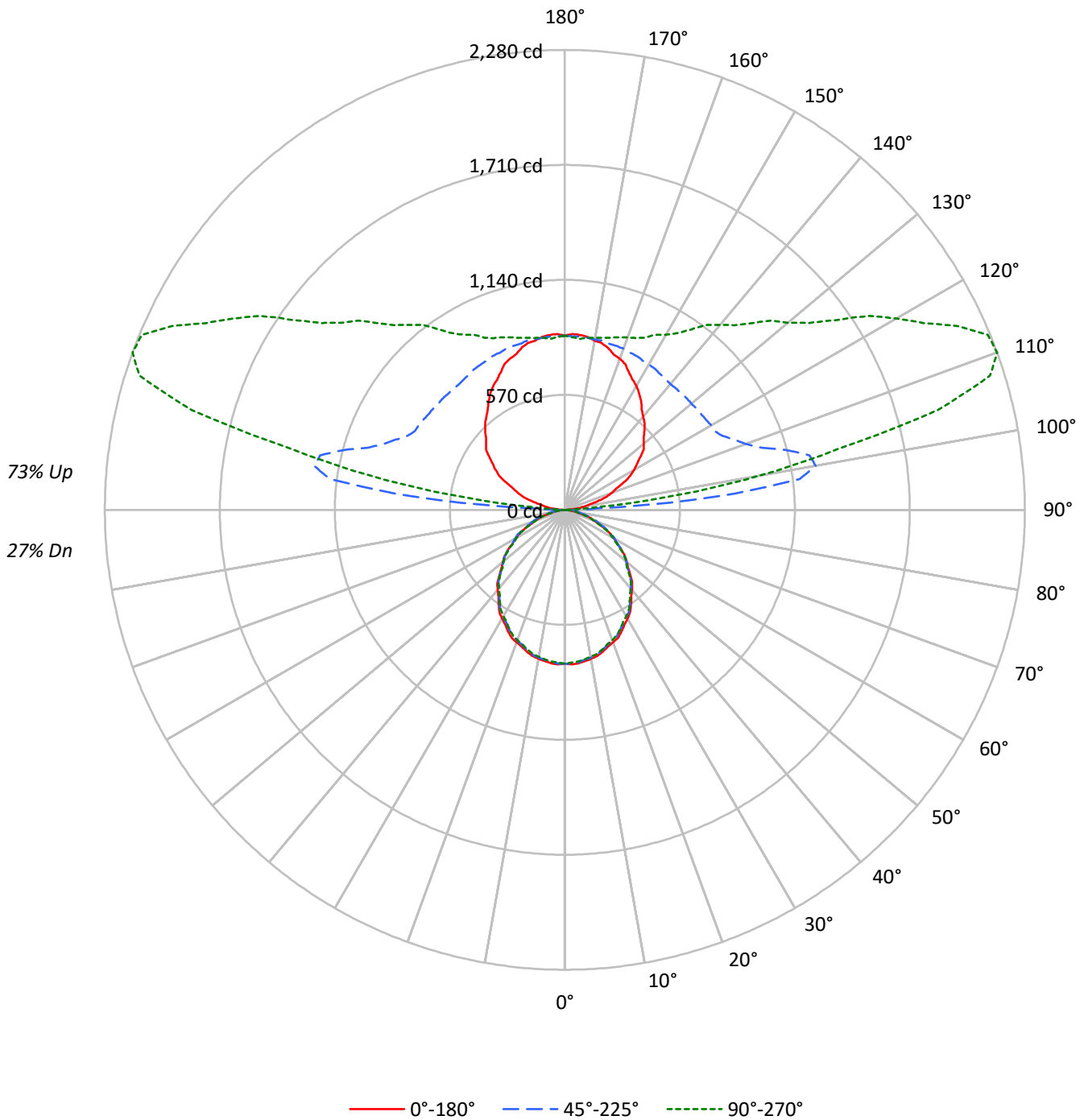
Lumens per Lamp: N/A
Luminaire Lumens: 7303.2 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.2
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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27				27
1	93	88	85	81	83	79	76	73	62	60	58	45	44	43	31	30	29				23	
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25				19	
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21				16	
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18				14	
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16				12	
6	59	48	40	34	53	43	36	31	34	29	25	25	22	20	17	15	14				11	
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12				9	
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	12	11				8	
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10				8	
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9				7	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7035	7035	7035
5°	7080	7025	6993
10°	7024	6967	6930
15°	6950	6872	6847
20°	6867	6761	6748
25°	6771	6648	6627
30°	6628	6527	6485
35°	6439	6348	6311
40°	6239	6141	6117
45°	5995	5917	5891
50°	5747	5698	5661
55°	5479	5479	5392
60°	5145	5244	5058
65°	4709	4943	4591
70°	4149	4548	4041
75°	3543	4071	3447
80°	2747	3427	2784
85°	1778	2636	2350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.0
10°-20°	202.7	2.8
20°-30°	300.7	4.1
30°-40°	351.8	4.8
40°-50°	350.3	4.8
50°-60°	302.5	4.1
60°-70°	217.7	3.0
70°-80°	114.2	1.6
80°-90°	28.3	0.4
90°-100°	393.4	5.4
100°-110°	1119.5	15.3
110°-120°	1072.5	14.7
120°-130°	848.9	11.6
130°-140°	681.4	9.3
140°-150°	533.4	7.3
150°-160°	390.3	5.3
160°-170°	241.8	3.3
170°-180°	82.0	1.1
0°-30°	575.2	7.9
0°-40°	927.0	12.7
0°-60°	1579.8	21.6
0°-90°	1940.0	26.6
90°-120°	2585.4	35.4
90°-150°	4649.1	63.7
90°-180°	5363.0	73.4
0°-180°	7303.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	756	758	756	755	72
15°	728	718	720	718	717	205
25°	665	654	653	649	651	306
35°	572	564	564	558	560	357
45°	460	456	454	452	452	355
55°	341	340	341	336	335	304
65°	216	222	226	218	210	214
75°	99	109	114	107	97	107
85°	17	22	25	24	22	22
90°	0	0	0	0	0	2
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

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CATALOG NUMBER: SQ4-PW1-125U-050D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.5	762.5	762.5	762.5	762.5
2.5°	766.8	760.5	762.5	760.8	757.1
5°	764.5	756.0	758.5	756.4	755.1
7.5°	756.7	748.8	750.7	748.5	747.7
10°	749.7	741.9	743.7	741.0	739.7
12.5°	741.7	733.3	735.1	732.4	731.6
15°	727.6	718.4	719.5	718.1	716.8
17.5°	711.2	701.8	702.0	699.9	699.6
20°	699.4	689.5	688.6	685.9	687.3
22.5°	686.5	676.1	675.2	671.4	673.3
25°	665.1	653.9	653.0	649.0	651.0
27.5°	640.4	629.3	629.3	623.8	625.9
30°	622.1	611.6	612.7	606.0	608.7
32.5°	602.7	593.3	593.9	587.2	589.8
35°	571.7	563.8	563.6	558.3	560.3
37.5°	540.0	533.0	531.9	528.9	529.4
40°	518.0	512.1	509.9	507.9	507.9
42.5°	494.9	489.5	487.3	485.8	485.3
45°	459.5	455.6	453.5	452.1	451.5
47.5°	424.6	420.9	419.1	418.1	417.5
50°	400.4	397.8	397.0	395.0	394.4
52.5°	376.2	374.6	373.9	371.4	370.7
55°	340.6	339.9	340.6	335.9	335.2
57.5°	303.5	304.6	306.7	300.4	298.8
60°	278.8	281.4	284.2	276.7	274.1
62.5°	253.5	257.7	261.6	253.1	249.4
65°	215.7	222.2	226.4	217.5	210.3
67.5°	179.1	187.2	192.3	182.7	174.5
70°	153.8	163.0	168.6	159.0	149.8
72.5°	131.8	142.1	146.6	137.5	128.3
75°	99.4	108.6	114.2	106.6	96.7
77.5°	70.5	79.2	83.8	77.2	69.1
80°	51.7	60.9	64.5	59.0	52.4
82.5°	36.7	44.3	46.8	43.4	39.0
85°	16.8	22.1	24.9	23.5	22.2
87.5°	4.3	8.0	10.2	10.2	10.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

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CATALOG NUMBER: SQ4-PW1-125U-050D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)