

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: P561673

Luminaire Tested: **SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561673
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

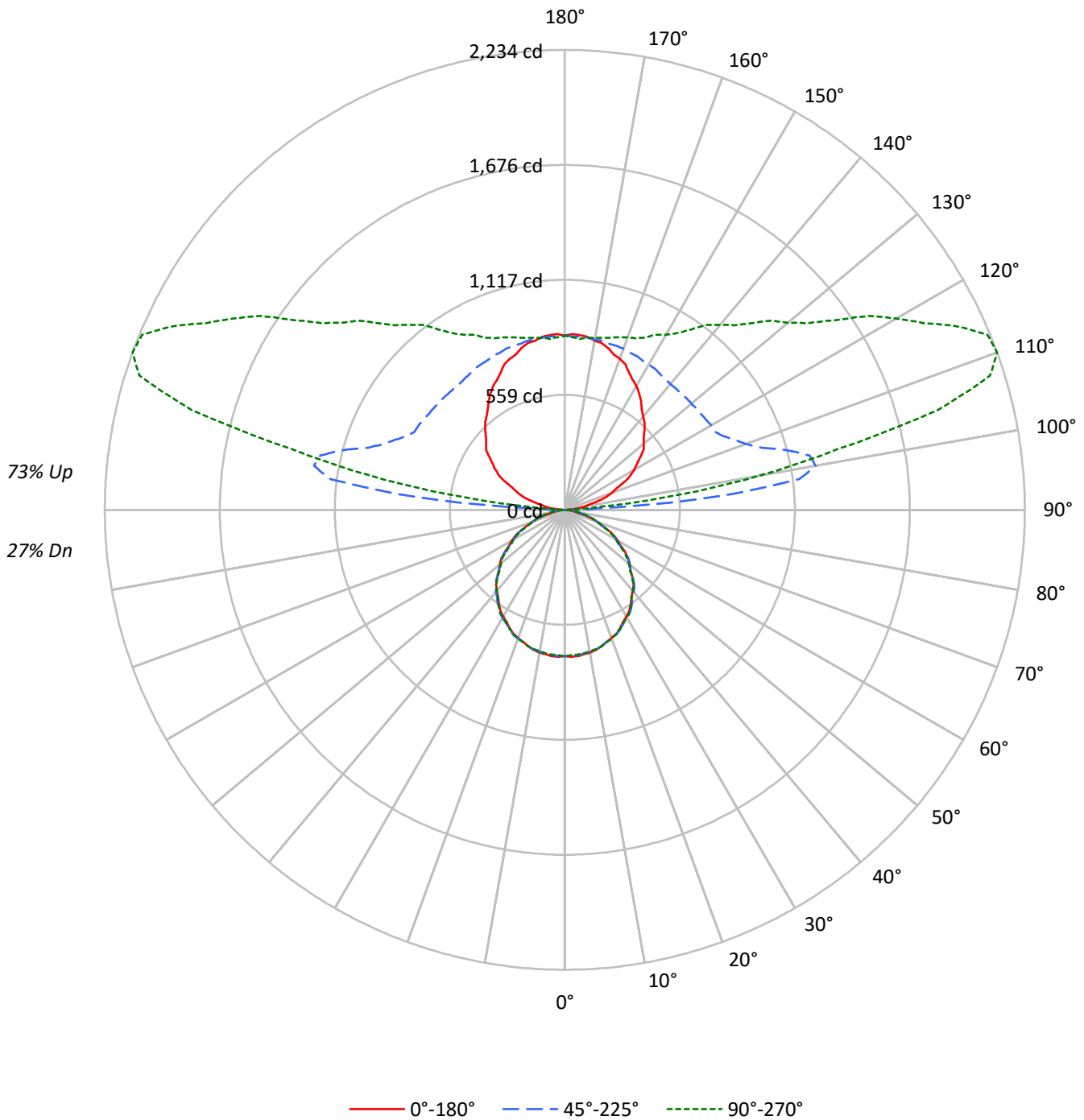
Lumens per Lamp: N/A
Luminaire Lumens: 7194.2 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	81	83	79	76	73	62	60	58	46	44	43	31	30	30	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	19	17	15	14	11
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6558	6558	6558
5°	6608	6565	6540
10°	6592	6561	6542
15°	6557	6557	6551
20°	6513	6533	6533
25°	6452	6499	6479
30°	6374	6451	6423
35°	6279	6375	6331
40°	6175	6263	6199
45°	6063	6106	6011
50°	5905	5905	5810
55°	5717	5643	5558
60°	5442	5331	5246
65°	5030	4929	4886
70°	4402	4437	4421
75°	3543	3918	3943
80°	2518	3321	3358
85°	1535	2784	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	0.9
10°-20°	193.0	2.7
20°-30°	292.3	4.1
30°-40°	350.5	4.9
40°-50°	357.4	5.0
50°-60°	312.0	4.3
60°-70°	223.3	3.1
70°-80°	115.0	1.6
80°-90°	29.1	0.4
90°-100°	385.4	5.4
100°-110°	1096.7	15.2
110°-120°	1050.8	14.6
120°-130°	831.6	11.6
130°-140°	667.5	9.3
140°-150°	522.6	7.3
150°-160°	382.4	5.3
160°-170°	236.8	3.3
170°-180°	80.4	1.1
0°-30°	552.7	7.7
0°-40°	903.2	12.6
0°-60°	1572.5	21.9
0°-90°	1940.0	27.0
90°-120°	2532.9	35.2
90°-150°	4554.7	63.3
90°-180°	5254.0	73.0
0°-180°	7194.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	714	706	709	707	706	68
15°	686	681	686	686	686	194
25°	634	629	638	636	636	292
35°	558	556	566	562	562	349
45°	465	463	468	462	461	358
55°	355	351	351	346	346	317
65°	230	225	226	224	224	228
75°	99	104	110	111	111	107
85°	14	22	26	27	26	20
90°	0	0	0	0	0	2
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.8	710.8	710.8	710.8	710.8
2.5°	715.0	708.9	710.8	709.2	706.6
5°	713.5	706.4	708.8	706.9	706.2
7.5°	708.3	701.2	704.5	703.2	702.5
10°	703.6	696.5	700.3	699.0	698.3
12.5°	697.3	690.7	695.0	693.7	693.6
15°	686.5	680.7	686.5	686.5	685.8
17.5°	672.9	667.6	673.8	674.2	673.8
20°	663.4	657.6	665.4	664.8	665.4
22.5°	651.8	647.1	655.4	653.7	654.3
25°	633.8	629.3	638.4	636.4	636.4
27.5°	612.5	609.3	619.2	617.1	617.1
30°	598.3	595.1	605.5	602.9	602.9
32.5°	582.5	580.3	590.2	587.1	587.1
35°	557.5	556.2	566.0	562.1	562.1
37.5°	531.7	530.5	539.4	534.7	533.1
40°	512.7	512.1	520.0	514.7	514.7
42.5°	493.8	493.1	499.9	493.6	493.6
45°	464.7	463.4	468.0	462.0	460.7
47.5°	432.9	431.7	434.5	428.1	427.4
50°	411.4	410.1	411.4	405.4	404.8
52.5°	389.2	386.9	387.1	381.2	381.1
55°	355.4	350.9	350.8	345.5	345.5
57.5°	319.6	313.7	314.2	309.7	309.1
60°	294.9	288.4	288.9	285.0	284.3
62.5°	270.6	263.2	264.7	260.2	260.1
65°	230.4	225.2	225.8	223.8	223.8
67.5°	191.7	186.9	190.3	188.8	188.6
70°	163.2	160.0	164.5	164.5	163.9
72.5°	136.9	136.8	142.4	142.4	142.8
75°	99.4	103.9	109.9	110.6	110.6
77.5°	66.3	74.3	81.0	81.2	81.1
80°	47.4	56.4	62.5	63.8	63.2
82.5°	32.1	41.6	46.7	48.0	47.4
85°	14.5	22.2	26.3	27.0	26.3
87.5°	4.2	8.8	10.5	10.5	9.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)