

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: P562681

Luminaire Tested: **SQ4-PC3-050U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562681
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20942.5 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

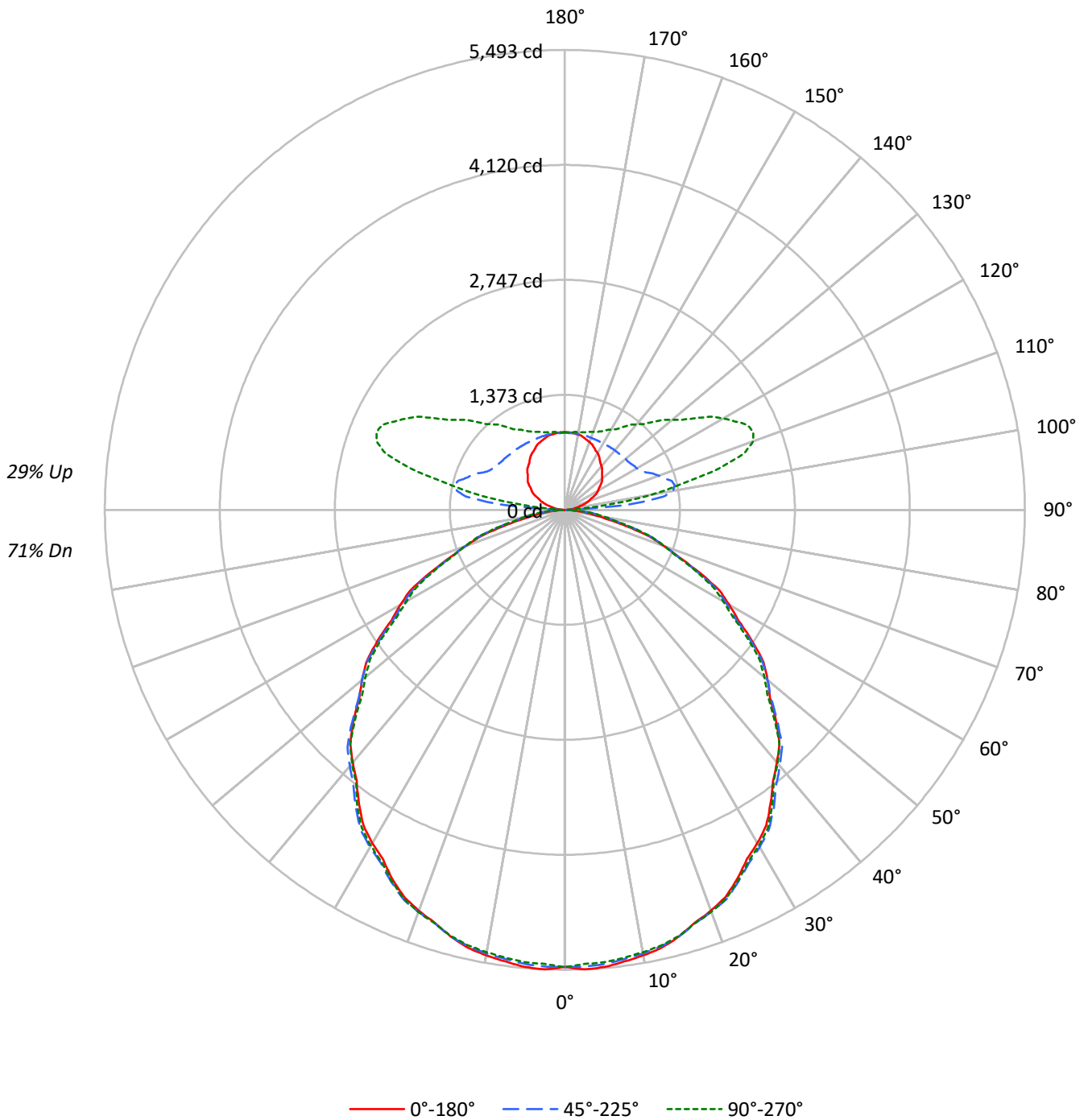
Input Watts (W): 167
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P562681

CATALOG NUMBER: SQ4-PC3-050U-125D-840-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P562681

CATALOG NUMBER: SQ4-PC3-050U-125D-840-1D-UNV-STD-W-12

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16752
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15874
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14233
60°	13932	13652	13435
65°	12877	12620	12510
70°	11275	11366	11321
75°	9072	10034	10093
80°	6447	8506	8597
85°	3924	7135	7135



TEST NUMBER: P562681

CATALOG NUMBER: SQ4-PC3-050U-125D-840-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	2.5
10°-20°	1483.0	7.1
20°-30°	2245.9	10.7
30°-40°	2692.5	12.9
40°-50°	2745.4	13.1
50°-60°	2396.6	11.4
60°-70°	1715.7	8.2
70°-80°	883.7	4.2
80°-90°	227.0	1.1
90°-100°	443.8	2.1
100°-110°	1205.5	5.8
110°-120°	1239.5	5.9
120°-130°	991.0	4.7
130°-140°	778.7	3.7
140°-150°	597.1	2.9
150°-160°	429.4	2.1
160°-170°	262.6	1.3
170°-180°	88.5	0.4
0°-30°	4245.7	20.3
0°-40°	6938.1	33.1
0°-60°	12080.1	57.7
0°-90°	14906.6	71.2
90°-120°	2888.8	13.8
90°-150°	5255.5	25.1
90°-180°	6036.0	28.8
0°-180°	20942.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5461	5461	5461	5461	5461	
5°	5481	5426	5445	5430	5425	520
15°	5274	5229	5274	5273	5268	1487
25°	4869	4834	4904	4889	4889	2241
35°	4282	4273	4348	4318	4318	2678
45°	3570	3560	3595	3549	3539	2748
55°	2730	2696	2695	2654	2654	2434
65°	1770	1730	1734	1719	1719	1750
75°	764	798	844	849	849	825
85°	111	171	202	207	202	151
90°	3	12	21	27	27	9
95°	65	243	773	336	226	69
105°	214	333	1326	2019	1899	227
115°	380	462	1061	2111	2405	375
125°	523	596	960	1618	1908	466
135°	630	700	933	1318	1486	487
145°	728	781	922	1120	1204	457
155°	823	852	916	1005	1034	380
165°	892	903	918	957	960	252
175°	924	927	922	933	930	88
180°	924	924	924	924	924	

TEST NUMBER: P562681

CATALOG NUMBER: SQ4-PC3-050U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5460.6	5460.6	5460.6	5460.6	5460.6
2.5°	5493.0	5445.5	5460.6	5448.0	5428.2
5°	5480.8	5426.4	5445.4	5430.1	5425.2
7.5°	5441.4	5387.0	5412.1	5401.8	5396.9
10°	5405.0	5350.6	5379.7	5369.5	5364.5
12.5°	5356.4	5306.0	5339.2	5329.1	5328.1
15°	5273.5	5229.0	5273.5	5273.4	5268.5
17.5°	5169.4	5128.8	5176.4	5179.4	5176.4
20°	5096.6	5052.1	5111.7	5106.8	5111.7
22.5°	5007.6	4971.0	5034.9	5021.8	5026.8
25°	4869.0	4834.4	4904.4	4889.3	4889.3
27.5°	4705.2	4680.5	4756.8	4740.6	4740.6
30°	4596.0	4571.3	4651.6	4631.4	4631.4
32.5°	4474.7	4457.8	4534.3	4510.0	4510.0
35°	4282.5	4272.6	4348.3	4317.9	4317.9
37.5°	4084.3	4075.4	4144.0	4107.3	4095.4
40°	3938.7	3933.8	3994.3	3953.9	3953.9
42.5°	3793.1	3788.1	3840.6	3792.1	3792.1
45°	3569.6	3559.7	3594.9	3549.2	3539.3
47.5°	3325.9	3316.0	3338.0	3288.4	3283.4
50°	3160.1	3150.2	3160.1	3114.4	3109.5
52.5°	2990.2	2972.4	2974.0	2928.5	2927.5
55°	2730.3	2695.7	2694.9	2654.5	2654.5
57.5°	2455.2	2409.8	2413.8	2379.3	2374.3
60°	2265.1	2215.7	2219.6	2189.2	2184.2
62.5°	2079.1	2021.7	2033.6	1999.2	1998.2
65°	1769.6	1730.1	1734.2	1719.1	1719.1
67.5°	1472.3	1435.8	1462.2	1450.1	1449.1
70°	1253.9	1229.2	1264.0	1263.9	1259.0
72.5°	1051.7	1050.7	1094.1	1094.2	1097.2
75°	763.5	798.1	844.4	849.4	849.4
77.5°	509.7	571.0	621.9	623.9	622.9
80°	364.0	433.3	480.3	490.3	485.4
82.5°	246.7	319.9	359.0	369.0	364.0
85°	111.2	170.6	202.2	207.2	202.2
87.5°	33.0	70.3	85.1	86.1	78.2
90°	3.0	11.7	20.8	26.8	26.8
92.5°	26.8	121.5	211.0	90.6	76.7
95°	65.4	242.7	772.8	336.3	225.9
97.5°	108.2	268.0	1184.8	921.8	647.4
100°	136.7	285.0	1310.9	1328.8	1073.1
102.5°	165.3	301.9	1344.1	1643.4	1417.9
105°	214.0	333.2	1325.7	2018.6	1899.4
107.5°	264.5	369.8	1249.0	2212.3	2245.4
110°	300.2	396.1	1192.0	2250.4	2392.8

TEST NUMBER: P562681

CATALOG NUMBER: SQ4-PC3-050U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.1	422.4	1134.9	2218.8	2433.2
115°	380.5	461.9	1061.2	2111.2	2404.7
117.5°	426.8	504.7	1014.2	1958.6	2289.4
120°	457.8	533.3	992.8	1856.3	2184.8
122.5°	483.9	559.5	978.5	1753.8	2070.6
125°	523.2	595.8	960.1	1617.7	1908.3
127.5°	558.2	630.3	950.0	1514.5	1763.9
130°	579.6	649.4	945.2	1449.7	1673.5
132.5°	601.0	670.8	940.5	1394.4	1592.6
135°	630.2	699.9	933.4	1317.7	1486.2
137.5°	661.7	725.0	929.8	1249.9	1391.7
140°	680.7	741.7	927.4	1206.7	1334.6
142.5°	699.7	756.1	925.0	1173.0	1279.9
145°	728.3	780.6	921.5	1119.6	1203.8
147.5°	760.4	805.1	918.5	1077.5	1143.8
150°	781.8	819.5	918.5	1053.4	1105.8
152.5°	798.4	831.5	916.1	1031.8	1074.8
155°	823.4	852.4	915.5	1005.3	1034.4
157.5°	847.7	870.4	915.5	987.4	1009.4
160°	862.0	882.4	915.5	975.4	992.8
162.5°	876.3	892.0	917.9	965.7	978.5
165°	891.7	903.4	918.5	957.2	960.1
167.5°	907.8	913.6	921.5	947.1	949.4
170°	912.5	918.4	921.5	942.3	942.3
172.5°	917.3	920.8	921.5	937.5	937.5
175°	924.4	927.3	921.5	933.3	930.4
177.5°	926.8	926.8	919.7	929.1	924.4
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)