

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: P561457

Luminaire Tested: **SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561457
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-PC3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

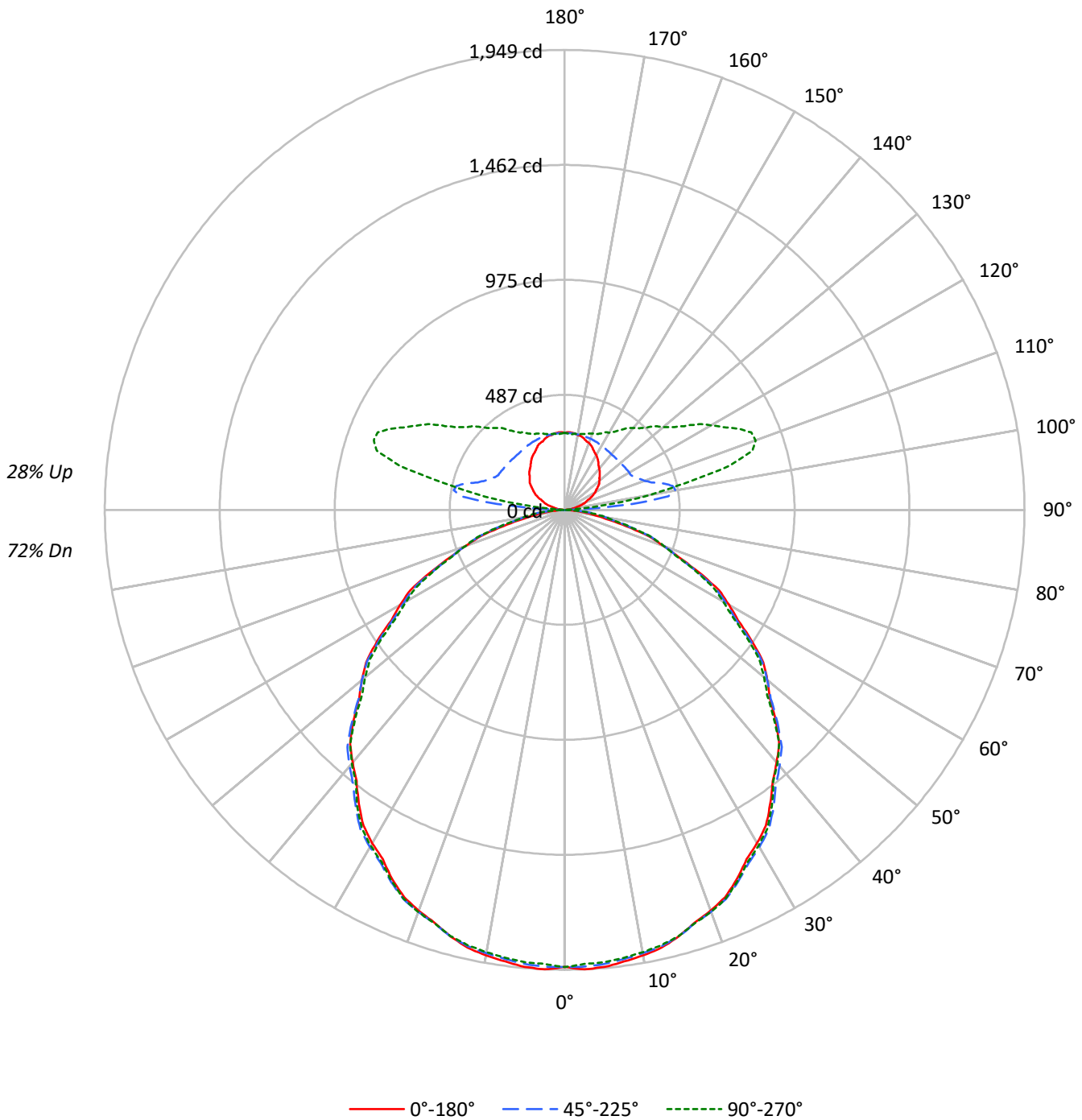
Lumens per Lamp: N/A
Luminaire Lumens: 7313.7 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.7
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	103	98	94	91	97	93	90	87	84	82	79	76	74	72	68	66	65	61
2	94	86	80	74	89	82	76	71	74	69	66	67	63	60	60	57	55	51
3	86	76	68	62	81	72	65	60	65	60	55	59	54	51	53	49	47	43
4	78	67	59	52	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	44	52	45	41	47	42	38	43	38	35	32
6	66	54	45	39	63	51	44	38	47	40	35	43	37	33	39	34	31	28
7	61	49	40	34	58	46	39	33	42	36	31	39	33	29	35	31	27	25
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	28	24	22
9	53	40	33	27	50	39	32	27	36	29	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17875	17875	17875
5°	18010	17893	17826
10°	17966	17882	17831
15°	17871	17871	17854
20°	17753	17807	17807
25°	17586	17714	17659
30°	17372	17583	17506
35°	17113	17376	17255
40°	16830	17069	16895
45°	16525	16641	16384
50°	16093	16093	15835
55°	15582	15379	15149
60°	14830	14531	14301
65°	13708	13433	13315
70°	12001	12099	12050
75°	9657	10680	10744
80°	6865	9054	9149
85°	4181	7601	7601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.5
10°-20°	526.2	7.2
20°-30°	796.8	10.9
30°-40°	955.3	13.1
40°-50°	974.0	13.3
50°-60°	850.3	11.6
60°-70°	608.7	8.3
70°-80°	313.5	4.3
80°-90°	79.3	1.1
90°-100°	148.6	2.0
100°-110°	422.9	5.8
110°-120°	405.2	5.5
120°-130°	320.7	4.4
130°-140°	257.4	3.5
140°-150°	201.5	2.8
150°-160°	147.4	2.0
160°-170°	91.3	1.2
170°-180°	31.0	0.4
0°-30°	1506.3	20.6
0°-40°	2461.6	33.7
0°-60°	4286.0	58.6
0°-90°	5287.5	72.3
90°-120°	976.8	13.4
90°-150°	1756.4	24.0
90°-180°	2026.0	27.7
0°-180°	7313.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1945	1925	1932	1927	1925	185
15°	1871	1855	1871	1871	1869	528
25°	1728	1715	1740	1735	1735	795
35°	1519	1516	1543	1532	1532	950
45°	1266	1263	1275	1259	1256	975
55°	969	956	956	942	942	864
65°	628	614	615	610	610	621
75°	271	283	300	301	301	293
85°	40	60	72	74	72	54
90°	0	0	0	0	0	2
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	



TEST NUMBER: P561457

CATALOG NUMBER: SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.4	1937.4	1937.4	1937.4	1937.4
2.5°	1948.9	1932.0	1937.4	1932.9	1925.9
5°	1944.6	1925.3	1932.0	1926.6	1924.8
7.5°	1930.6	1911.3	1920.2	1916.5	1914.8
10°	1917.7	1898.4	1908.7	1905.1	1903.3
12.5°	1900.4	1882.5	1894.3	1890.7	1890.4
15°	1871.0	1855.2	1871.0	1871.0	1869.2
17.5°	1834.1	1819.7	1836.6	1837.6	1836.6
20°	1808.2	1792.4	1813.6	1811.9	1813.6
22.5°	1776.7	1763.7	1786.3	1781.7	1783.5
25°	1727.5	1715.2	1740.1	1734.7	1734.7
27.5°	1669.4	1660.6	1687.7	1681.9	1681.9
30°	1630.6	1621.9	1650.4	1643.2	1643.2
32.5°	1587.6	1581.6	1608.7	1600.1	1600.1
35°	1519.4	1515.9	1542.7	1532.0	1532.0
37.5°	1449.1	1445.9	1470.3	1457.2	1453.0
40°	1397.4	1395.7	1417.2	1402.8	1402.8
42.5°	1345.8	1344.0	1362.6	1345.4	1345.4
45°	1266.5	1263.0	1275.4	1259.2	1255.7
47.5°	1180.0	1176.5	1184.3	1166.7	1164.9
50°	1121.2	1117.7	1121.2	1105.0	1103.2
52.5°	1060.9	1054.6	1055.2	1039.0	1038.7
55°	968.7	956.4	956.1	941.8	941.8
57.5°	871.1	855.0	856.4	844.2	842.4
60°	803.7	786.1	787.5	776.7	775.0
62.5°	737.6	717.3	721.5	709.3	708.9
65°	627.9	613.8	615.3	609.9	609.9
67.5°	522.4	509.4	518.8	514.5	514.1
70°	444.9	436.1	448.5	448.4	446.7
72.5°	373.1	372.8	388.2	388.2	389.3
75°	270.9	283.2	299.6	301.4	301.4
77.5°	180.8	202.6	220.6	221.4	221.0
80°	129.2	153.7	170.4	174.0	172.2
82.5°	87.5	113.5	127.4	130.9	129.2
85°	39.5	60.5	71.8	73.5	71.8
87.5°	11.5	24.1	28.7	28.6	25.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)