

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: P561456

Luminaire Tested: **SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561456
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

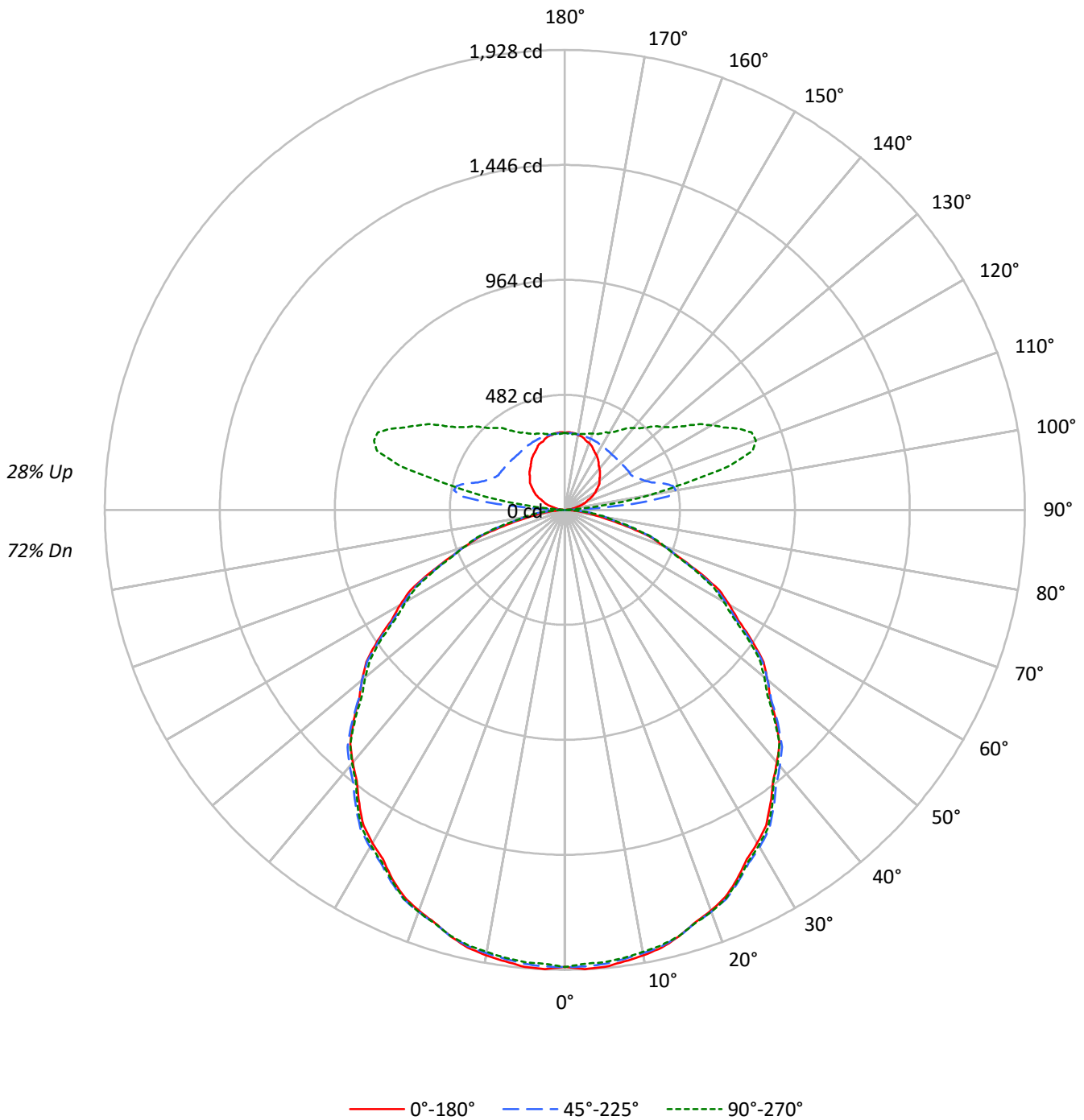
Lumens per Lamp: N/A
Luminaire Lumens: 7233.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	17679	17679	17679
5°	17813	17698	17632
10°	17769	17686	17636
15°	17675	17675	17659
20°	17559	17612	17612
25°	17394	17520	17466
30°	17182	17390	17314
35°	16926	17185	17066
40°	16646	16882	16711
45°	16344	16460	16205
50°	15917	15917	15662
55°	15411	15212	14984
60°	14668	14373	14144
65°	13557	13286	13168
70°	11869	11966	11918
75°	9550	10562	10626
80°	6785	8958	9048
85°	4128	7516	7516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	2.5
10°-20°	520.4	7.2
20°-30°	788.1	10.9
30°-40°	944.8	13.1
40°-50°	963.4	13.3
50°-60°	841.0	11.6
60°-70°	602.1	8.3
70°-80°	310.1	4.3
80°-90°	78.4	1.1
90°-100°	147.0	2.0
100°-110°	418.3	5.8
110°-120°	400.8	5.5
120°-130°	317.2	4.4
130°-140°	254.6	3.5
140°-150°	199.3	2.8
150°-160°	145.8	2.0
160°-170°	90.3	1.2
170°-180°	30.7	0.4
0°-30°	1489.9	20.6
0°-40°	2434.7	33.7
0°-60°	4239.0	58.6
0°-90°	5229.6	72.3
90°-120°	966.1	13.4
90°-150°	1737.2	24.0
90°-180°	2004.0	27.7
0°-180°	7233.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1923	1904	1911	1906	1904	183
15°	1850	1835	1850	1850	1849	522
25°	1709	1696	1721	1716	1716	786
35°	1503	1499	1526	1515	1515	940
45°	1253	1249	1262	1245	1242	964
55°	958	946	946	932	932	854
65°	621	607	609	603	603	614
75°	268	280	296	298	298	289
85°	39	60	71	73	71	53
90°	0	0	0	0	0	2
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	

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CATALOG NUMBER: SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1916.2	1916.2	1916.2	1916.2	1916.2
2.5°	1927.5	1910.9	1916.2	1911.8	1904.8
5°	1923.3	1904.2	1910.9	1905.5	1903.8
7.5°	1909.4	1890.4	1899.2	1895.6	1893.8
10°	1896.7	1877.6	1887.8	1884.2	1882.5
12.5°	1879.6	1861.9	1873.6	1870.0	1869.7
15°	1850.5	1834.9	1850.5	1850.5	1848.8
17.5°	1814.0	1799.8	1816.5	1817.5	1816.5
20°	1788.4	1772.8	1793.8	1792.0	1793.8
22.5°	1757.2	1744.4	1766.8	1762.2	1764.0
25°	1708.6	1696.5	1721.0	1715.7	1715.7
27.5°	1651.1	1642.4	1669.2	1663.5	1663.5
30°	1612.8	1604.1	1632.3	1625.2	1625.2
32.5°	1570.2	1564.3	1591.1	1582.6	1582.6
35°	1502.8	1499.3	1525.8	1515.2	1515.2
37.5°	1433.2	1430.1	1454.2	1441.3	1437.1
40°	1382.1	1380.4	1401.7	1387.5	1387.5
42.5°	1331.0	1329.3	1347.7	1330.7	1330.7
45°	1252.6	1249.1	1261.5	1245.4	1242.0
47.5°	1167.1	1163.6	1171.4	1153.9	1152.2
50°	1108.9	1105.4	1108.9	1092.9	1091.2
52.5°	1049.3	1043.0	1043.6	1027.6	1027.3
55°	958.1	945.9	945.7	931.5	931.5
57.5°	861.6	845.6	847.0	834.9	833.2
60°	794.9	777.5	778.9	768.2	766.5
62.5°	729.6	709.4	713.6	701.5	701.2
65°	621.0	607.1	608.6	603.2	603.2
67.5°	516.7	503.8	513.1	508.8	508.5
70°	440.0	431.3	443.6	443.5	441.8
72.5°	369.0	368.7	383.9	384.0	385.0
75°	267.9	280.1	296.3	298.1	298.1
77.5°	178.8	200.4	218.2	218.9	218.6
80°	127.7	152.0	168.6	172.1	170.3
82.5°	86.6	112.3	126.0	129.5	127.7
85°	39.0	59.9	71.0	72.7	71.0
87.5°	11.4	23.8	28.4	28.3	25.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)