

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: P561458

Luminaire Tested: **SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561458
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

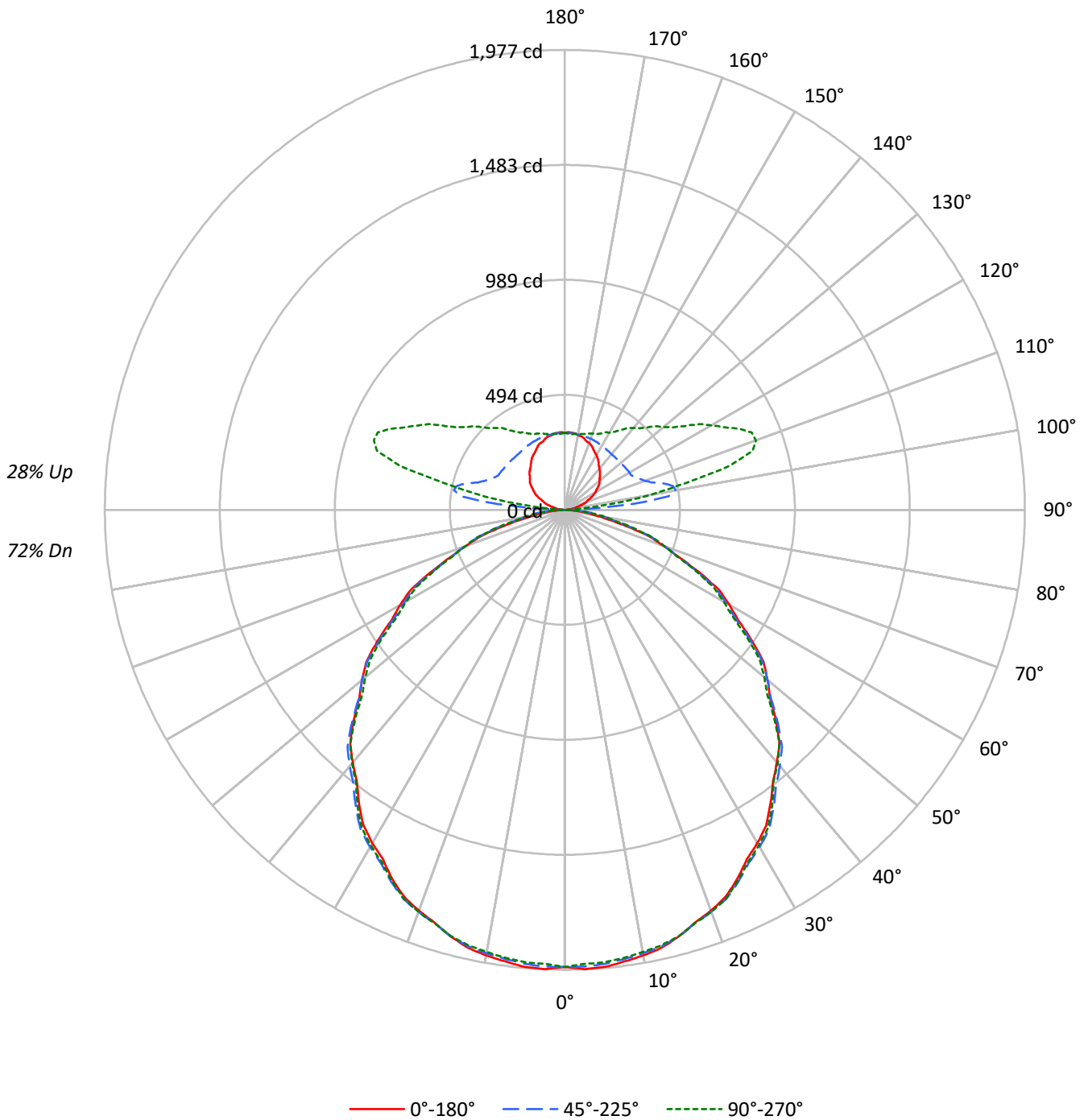
Lumens per Lamp: N/A
Luminaire Lumens: 7417.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.6
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°	18129	18129	18129
5°	18266	18148	18080
10°	18222	18137	18085
15°	18126	18126	18108
20°	18007	18060	18060
25°	17836	17966	17911
30°	17620	17833	17755
35°	17358	17623	17501
40°	17070	17311	17136
45°	16760	16879	16618
50°	16321	16321	16060
55°	15804	15600	15365
60°	15041	14738	14504
65°	13902	13625	13505
70°	12171	12271	12220
75°	9792	10830	10897
80°	6960	9181	9282
85°	4234	7707	7707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	2.5
10°-20°	533.7	7.2
20°-30°	808.2	10.9
30°-40°	968.9	13.1
40°-50°	987.9	13.3
50°-60°	862.4	11.6
60°-70°	617.4	8.3
70°-80°	318.0	4.3
80°-90°	80.4	1.1
90°-100°	150.8	2.0
100°-110°	428.9	5.8
110°-120°	411.0	5.5
120°-130°	325.3	4.4
130°-140°	261.1	3.5
140°-150°	204.4	2.8
150°-160°	149.6	2.0
160°-170°	92.6	1.2
170°-180°	31.4	0.4
0°-30°	1527.8	20.6
0°-40°	2496.7	33.7
0°-60°	4347.0	58.6
0°-90°	5362.8	72.3
90°-120°	990.7	13.4
90°-150°	1781.4	24.0
90°-180°	2055.0	27.7
0°-180°	7417.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1972	1953	1960	1954	1952	187
15°	1898	1882	1898	1898	1896	535
25°	1752	1740	1765	1759	1759	806
35°	1541	1538	1565	1554	1554	964
45°	1284	1281	1294	1277	1274	989
55°	982	970	970	955	955	876
65°	637	623	624	619	619	630
75°	275	287	304	306	306	297
85°	40	61	73	75	73	54
90°	0	0	0	0	0	2
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	

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CATALOG NUMBER: SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.0	1965.0	1965.0	1965.0	1965.0
2.5°	1976.6	1959.5	1965.0	1960.5	1953.3
5°	1972.3	1952.7	1959.5	1954.0	1952.2
7.5°	1958.1	1938.5	1947.5	1943.8	1942.1
10°	1945.0	1925.4	1935.9	1932.2	1930.4
12.5°	1927.5	1909.4	1921.3	1917.7	1917.3
15°	1897.7	1881.7	1897.7	1897.6	1895.8
17.5°	1860.2	1845.6	1862.7	1863.8	1862.7
20°	1834.0	1818.0	1839.4	1837.7	1839.4
22.5°	1802.0	1788.8	1811.8	1807.1	1808.9
25°	1752.1	1739.7	1764.8	1759.4	1759.4
27.5°	1693.2	1684.3	1711.7	1705.9	1705.9
30°	1653.9	1645.0	1673.9	1666.6	1666.6
32.5°	1610.2	1604.1	1631.7	1622.9	1622.9
35°	1541.1	1537.5	1564.7	1553.8	1553.8
37.5°	1469.7	1466.5	1491.2	1478.0	1473.7
40°	1417.3	1415.6	1437.3	1422.8	1422.8
42.5°	1364.9	1363.2	1382.0	1364.6	1364.6
45°	1284.5	1281.0	1293.6	1277.2	1273.6
47.5°	1196.8	1193.3	1201.2	1183.3	1181.5
50°	1137.1	1133.6	1137.1	1120.7	1118.9
52.5°	1076.0	1069.6	1070.2	1053.8	1053.4
55°	982.5	970.0	969.8	955.2	955.2
57.5°	883.5	867.1	868.6	856.2	854.4
60°	815.1	797.3	798.7	787.8	786.0
62.5°	748.1	727.5	731.8	719.4	719.0
65°	636.8	622.6	624.1	618.6	618.6
67.5°	529.8	516.7	526.2	521.8	521.4
70°	451.2	442.3	454.9	454.8	453.0
72.5°	378.4	378.1	393.7	393.7	394.8
75°	274.7	287.2	303.8	305.7	305.7
77.5°	183.4	205.5	223.8	224.5	224.2
80°	131.0	155.9	172.8	176.4	174.7
82.5°	88.8	115.1	129.2	132.8	131.0
85°	40.0	61.4	72.8	74.6	72.8
87.5°	11.6	24.5	29.1	29.0	26.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)