

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: P562184

Luminaire Tested: **SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562184
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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

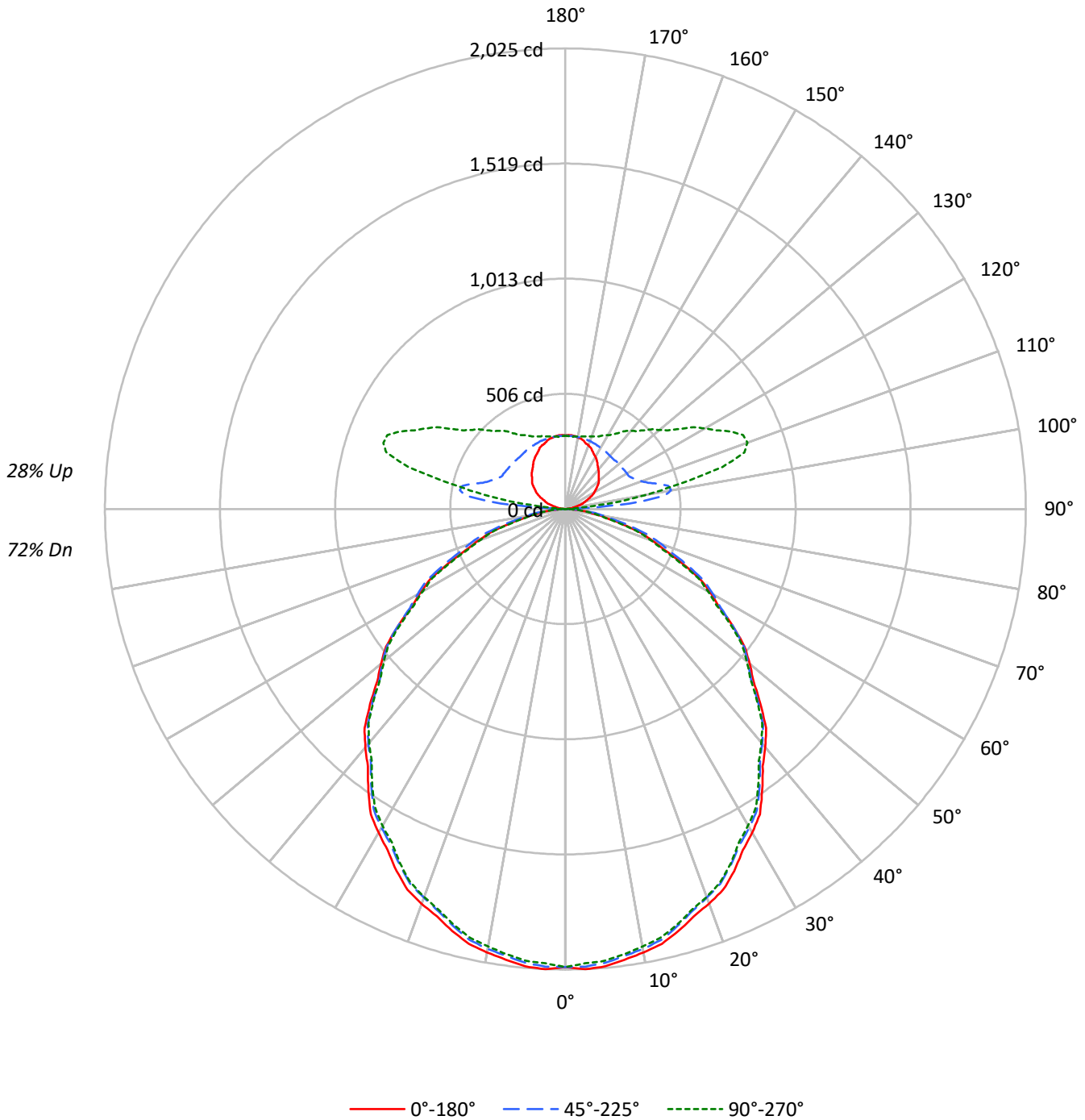
Lumens per Lamp: N/A
Luminaire Lumens: 7127.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	103	98	94	91	97	93	90	87	84	81	79	76	74	72	68	66	65	61
2	94	86	80	75	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	55	51	53	50	47	43
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	47	44	40	37
5	72	60	52	45	68	57	50	44	52	46	41	47	42	38	43	39	35	32
6	67	54	46	40	63	52	44	38	47	41	36	43	37	33	39	34	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	28	36	30	27	33	28	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22	20
10	50	38	30	25	47	36	29	24	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18580	18580	18580
5°	18700	18552	18470
10°	18551	18401	18300
15°	18354	18150	18082
20°	18134	17856	17821
25°	17881	17556	17501
30°	17504	17238	17126
35°	17006	16766	16666
40°	16475	16220	16155
45°	15835	15626	15557
50°	15179	15051	14949
55°	14469	14469	14240
60°	13587	13849	13358
65°	12433	13053	12123
70°	10960	12012	10674
75°	9361	10751	9108
80°	7258	9048	7353
85°	4700	6944	6203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	2.7
10°-20°	535.4	7.5
20°-30°	794.1	11.1
30°-40°	929.2	13.0
40°-50°	925.1	13.0
50°-60°	798.8	11.2
60°-70°	575.0	8.1
70°-80°	301.5	4.2
80°-90°	74.8	1.0
90°-100°	147.0	2.1
100°-110°	418.3	5.9
110°-120°	400.8	5.6
120°-130°	317.2	4.5
130°-140°	254.6	3.6
140°-150°	199.3	2.8
150°-160°	145.8	2.0
160°-170°	90.3	1.3
170°-180°	30.7	0.4
0°-30°	1519.1	21.3
0°-40°	2448.3	34.4
0°-60°	4172.2	58.5
0°-90°	5123.5	71.9
90°-120°	966.1	13.6
90°-150°	1737.2	24.4
90°-180°	2004.0	28.1
0°-180°	7127.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2019	1996	2003	1998	1994	191
15°	1922	1897	1900	1897	1893	542
25°	1756	1727	1725	1714	1719	808
35°	1510	1489	1489	1474	1480	944
45°	1214	1203	1198	1194	1192	936
55°	900	898	900	887	885	803
65°	570	587	598	574	555	564
75°	263	287	302	282	256	281
85°	44	58	66	62	59	59
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2025.1	2008.5	2013.8	2009.3	1999.6
5°	2019.1	1996.5	2003.1	1997.7	1994.3
7.5°	1998.5	1977.7	1982.5	1976.8	1974.7
10°	1980.1	1959.2	1964.1	1956.9	1953.4
12.5°	1958.8	1936.6	1941.4	1934.2	1932.2
15°	1921.5	1897.2	1900.2	1896.6	1893.1
17.5°	1878.2	1853.6	1854.1	1848.4	1847.7
20°	1847.0	1821.0	1818.6	1811.6	1815.1
22.5°	1812.9	1785.5	1783.1	1773.3	1778.1
25°	1756.5	1727.0	1724.6	1714.0	1719.2
27.5°	1691.2	1662.1	1662.1	1647.3	1652.9
30°	1643.0	1615.2	1618.1	1600.5	1607.5
32.5°	1591.9	1566.9	1568.4	1550.8	1557.8
35°	1509.9	1489.1	1488.6	1474.5	1479.7
37.5°	1426.1	1407.7	1404.8	1396.7	1398.1
40°	1367.9	1352.3	1346.7	1341.3	1341.3
42.5°	1306.9	1292.7	1287.0	1283.1	1281.7
45°	1213.6	1203.2	1197.6	1194.0	1192.3
47.5°	1121.3	1111.6	1106.8	1104.3	1102.5
50°	1057.5	1050.5	1048.6	1043.2	1041.5
52.5°	993.6	989.4	987.5	980.8	979.0
55°	899.5	897.8	899.5	887.1	885.3
57.5°	801.6	804.4	810.1	793.3	789.2
60°	736.3	743.3	750.5	730.8	723.9
62.5°	669.6	680.7	690.9	668.3	658.6
65°	569.5	586.9	597.9	574.4	555.3
67.5°	473.0	494.5	507.8	482.5	460.9
70°	406.3	430.6	445.3	419.9	395.7
72.5°	348.1	375.2	387.1	363.2	338.9
75°	262.6	286.9	301.6	281.5	255.5
77.5°	186.3	209.2	221.4	203.9	182.4
80°	136.6	160.9	170.3	155.7	138.4
82.5°	96.9	117.0	123.5	114.7	102.9
85°	44.4	58.2	65.6	62.0	58.6
87.5°	11.4	21.1	27.0	27.0	28.4
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)