

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: P523766

Luminaire Tested: **SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523766
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 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: 8560.9 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

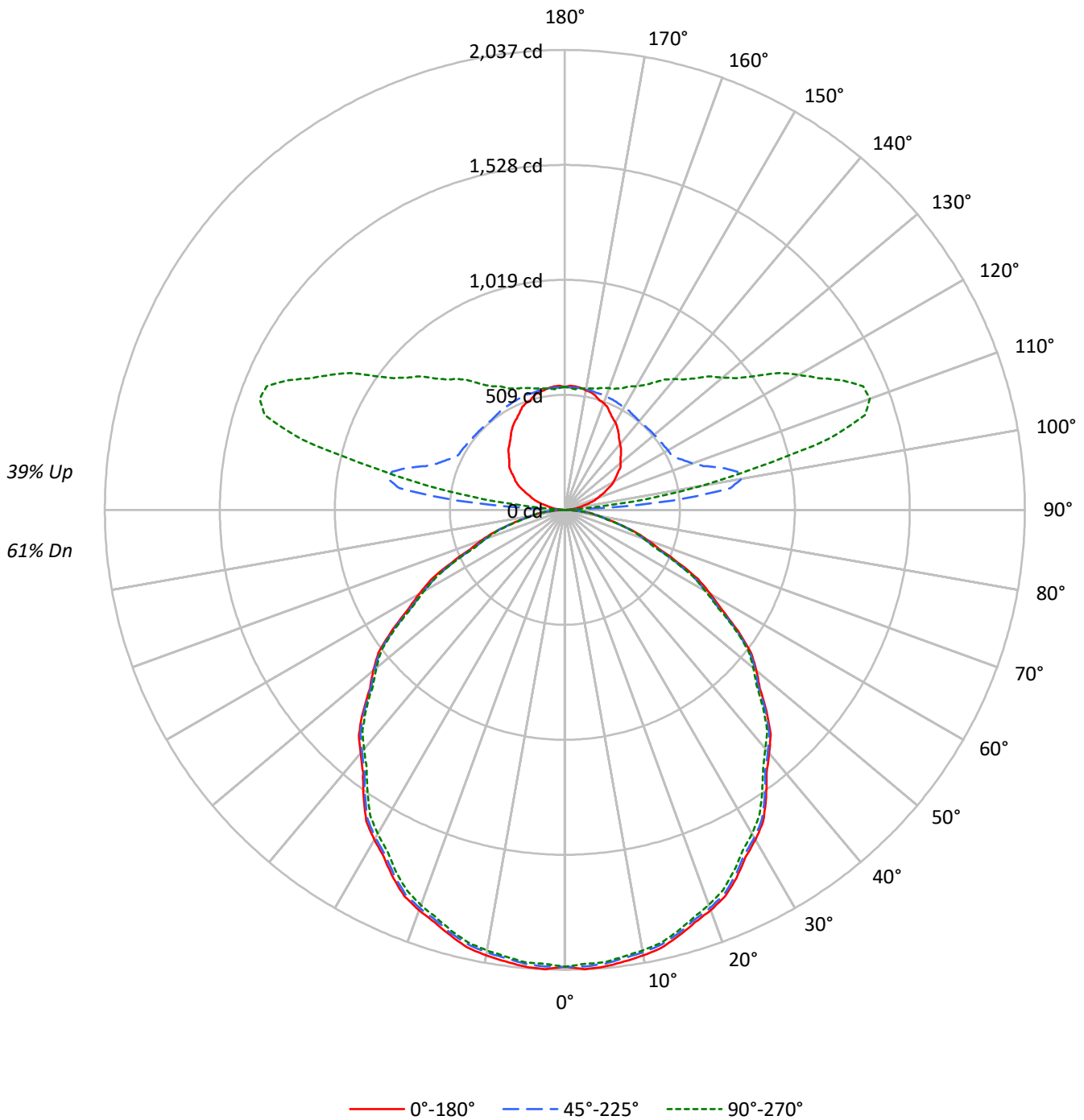
Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	50	48	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	70	59	51	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18673	18673	18673
5°	18810	18695	18629
10°	18778	18645	18563
15°	18654	18552	18451
20°	18530	18426	18287
25°	18311	18183	18003
30°	17971	17877	17651
35°	17502	17381	17162
40°	16941	16835	16642
45°	16479	16363	16201
50°	15888	15786	15632
55°	15066	14866	14752
60°	13714	13321	13256
65°	12081	11579	11540
70°	10431	10000	10000
75°	8980	8851	8726
80°	7917	8012	7821
85°	6193	6764	6764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	2.2
10°-20°	546.5	6.4
20°-30°	818.5	9.6
30°-40°	960.1	11.2
40°-50°	963.1	11.2
50°-60°	821.6	9.6
60°-70°	535.8	6.3
70°-80°	268.8	3.1
80°-90°	74.4	0.9
90°-100°	248.0	2.9
100°-110°	705.7	8.2
110°-120°	676.1	7.9
120°-130°	535.1	6.3
130°-140°	429.5	5.0
140°-150°	336.2	3.9
150°-160°	246.0	2.9
160°-170°	152.4	1.8
170°-180°	51.7	0.6
0°-30°	1556.4	18.2
0°-40°	2516.4	29.4
0°-60°	4301.1	50.2
0°-90°	5180.2	60.5
90°-120°	1629.8	19.0
90°-150°	2930.6	34.2
90°-180°	3381.0	39.5
0°-180°	8560.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2024	2024	2024	2024	2024	
5°	2031	2012	2019	2012	2012	193
15°	1953	1934	1942	1935	1932	551
25°	1799	1778	1786	1770	1768	827
35°	1554	1538	1543	1525	1524	971
45°	1263	1254	1254	1242	1242	972
55°	937	933	924	919	917	832
65°	553	543	530	527	529	552
75°	252	252	248	246	245	273
85°	58	64	64	64	64	69
90°	0	0	0	0	0	3
95°	27	107	480	166	102	31
105°	110	166	719	1270	1208	116
115°	204	246	545	1155	1356	201
125°	288	319	520	864	1033	257
135°	352	381	514	730	825	271
145°	415	436	518	631	688	259
155°	474	485	531	571	594	219
165°	524	526	537	549	557	147
175°	548	545	543	540	536	52
180°	544	544	544	544	544	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2023.9	2023.9	2023.9	2023.9	2023.9
2.5°	2036.7	2020.1	2023.9	2020.9	2012.6
5°	2031.0	2011.9	2018.6	2011.5	2011.5
7.5°	2017.2	1996.4	2003.0	1995.9	1995.6
10°	2004.4	1983.6	1990.2	1983.1	1981.4
12.5°	1986.0	1965.2	1973.2	1964.7	1964.3
15°	1953.0	1933.9	1942.3	1935.2	1931.7
17.5°	1915.7	1894.9	1905.1	1895.1	1893.7
20°	1887.3	1866.5	1876.7	1862.5	1862.5
22.5°	1853.3	1832.5	1844.1	1825.6	1825.6
25°	1798.7	1777.8	1786.2	1770.2	1768.5
27.5°	1733.7	1713.3	1722.0	1703.9	1703.6
30°	1686.9	1667.8	1678.0	1658.5	1656.8
32.5°	1635.8	1618.1	1625.5	1606.0	1604.2
35°	1553.9	1538.3	1543.2	1525.4	1523.7
37.5°	1467.7	1451.7	1457.4	1442.1	1441.4
40°	1406.6	1396.2	1397.8	1385.3	1381.8
42.5°	1349.9	1338.1	1339.6	1327.2	1326.5
45°	1263.0	1254.3	1254.1	1241.7	1241.7
47.5°	1170.7	1164.1	1162.2	1151.9	1151.6
50°	1106.9	1101.7	1099.8	1090.9	1089.1
52.5°	1040.2	1037.7	1031.7	1024.2	1023.9
55°	936.6	933.1	924.2	918.8	917.1
57.5°	824.1	817.2	807.1	799.3	800.7
60°	743.2	736.3	721.9	718.4	718.4
62.5°	665.2	656.9	642.5	637.6	640.4
65°	553.4	543.0	530.4	526.9	528.6
67.5°	452.0	442.6	428.9	428.9	427.5
70°	386.7	381.5	370.7	370.7	370.7
72.5°	328.5	326.1	318.2	318.2	316.8
75°	251.9	251.9	248.3	246.5	244.8
77.5°	188.7	189.4	187.7	185.8	182.7
80°	149.0	152.5	150.8	149.0	147.2
82.5°	112.1	115.6	115.3	112.1	111.8
85°	58.5	63.7	63.9	63.9	63.9
87.5°	15.6	21.2	22.7	22.7	24.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.3	43.9	101.8	29.6	22.3
95°	26.9	106.8	480.1	166.2	102.4
97.5°	49.5	125.1	739.4	529.1	362.6
100°	65.2	136.0	795.7	806.0	620.8
102.5°	82.6	147.7	783.3	1031.7	870.0
105°	109.7	166.3	719.1	1270.2	1207.5
107.5°	137.2	188.0	644.2	1337.5	1393.4
110°	156.2	203.8	601.2	1311.8	1437.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.5	219.6	572.2	1250.9	1429.8
115°	203.8	246.3	545.3	1155.2	1356.5
117.5°	229.7	269.6	529.4	1050.5	1263.8
120°	250.4	283.8	527.7	990.7	1195.1
122.5°	267.0	300.3	523.6	938.3	1128.1
125°	287.7	319.0	520.5	863.7	1032.7
127.5°	310.2	339.5	518.8	819.1	958.4
130°	321.8	351.1	516.3	788.1	909.5
132.5°	334.2	362.7	516.3	763.9	875.6
135°	351.8	381.1	514.3	729.6	824.7
137.5°	368.4	396.9	514.0	700.5	782.7
140°	380.8	410.1	513.2	676.4	755.3
142.5°	394.8	419.3	515.7	657.2	728.0
145°	414.9	436.2	518.4	631.4	688.1
147.5°	432.1	452.7	522.9	605.4	654.4
150°	447.0	461.2	524.6	596.8	631.2
152.5°	458.6	473.6	526.3	585.1	617.1
155°	473.9	485.0	530.8	570.7	593.9
157.5°	492.9	499.6	531.8	564.1	580.7
160°	502.9	507.9	536.0	559.1	573.2
162.5°	508.7	514.5	536.8	554.9	565.8
165°	523.6	525.6	537.0	548.6	556.7
167.5°	533.7	531.9	541.8	547.0	550.3
170°	537.0	536.0	540.1	541.3	545.3
172.5°	544.5	541.0	542.6	539.6	542.8
175°	548.4	545.4	543.2	540.0	536.0
177.5°	550.1	545.2	542.6	539.3	540.1
180°	544.3	544.3	544.3	544.3	544.3

(END OF REPORT)