

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: P564633

Luminaire Tested: **SQ4-PW1-050U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564633
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10221.2 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

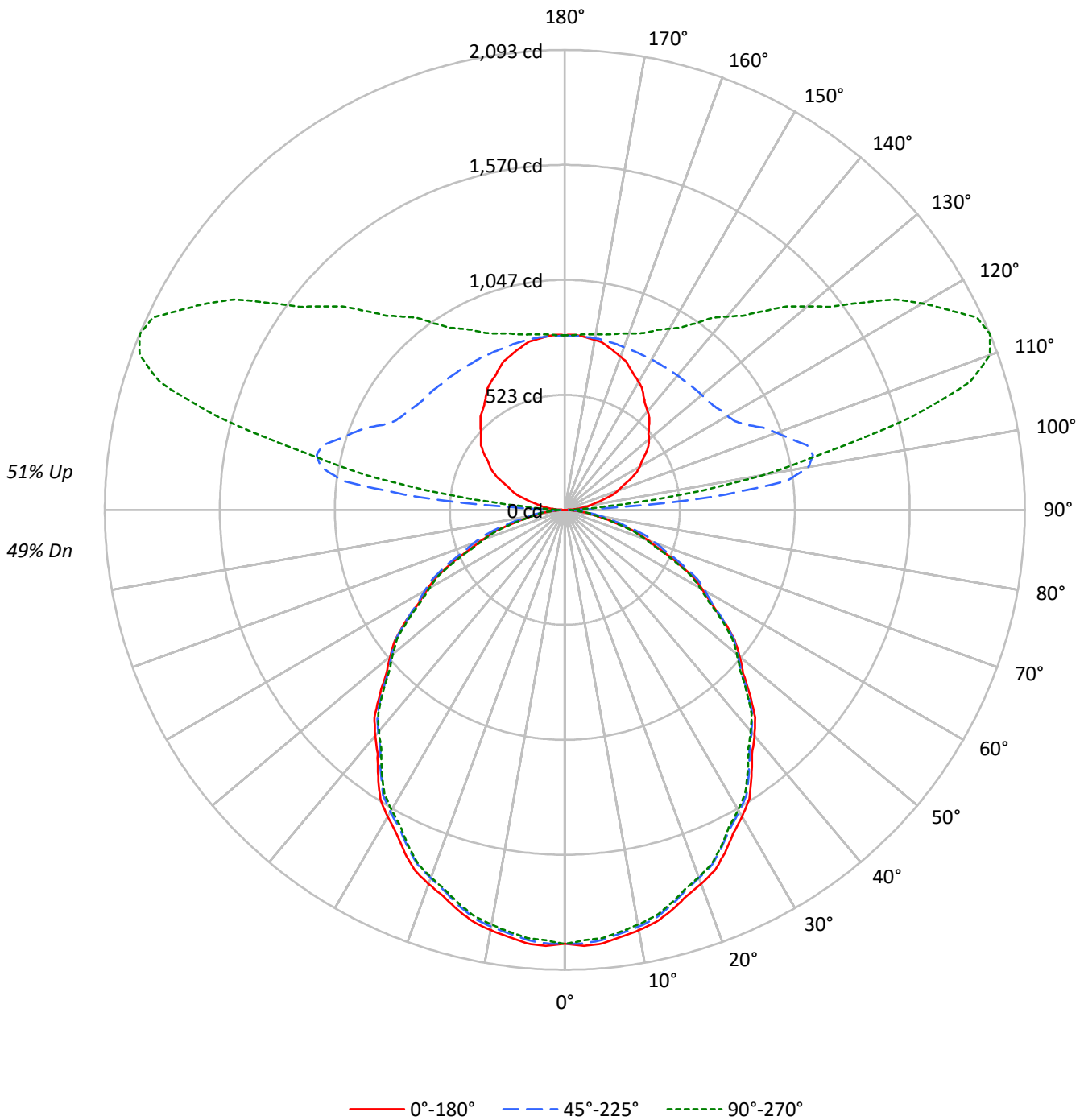
Input Watts (W): 79.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47				42	
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40				35	
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34				30	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29				26	
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22				19	
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20				17	
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18				15	
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5935	5912
20°	5929	5838	5827
25°	5847	5740	5723
30°	5723	5636	5599
35°	5561	5482	5449
40°	5387	5303	5282
45°	5177	5110	5086
50°	4963	4921	4888
55°	4731	4731	4657
60°	4443	4528	4368
65°	4066	4268	3964
70°	3583	3928	3490
75°	3061	3516	2978
80°	2373	2959	2405
85°	1535	2272	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	1.8
10°-20°	525.2	5.1
20°-30°	779.0	7.6
30°-40°	911.5	8.9
40°-50°	907.4	8.9
50°-60°	783.6	7.7
60°-70°	564.1	5.5
70°-80°	295.8	2.9
80°-90°	76.4	0.7
90°-100°	381.7	3.7
100°-110°	1037.0	10.1
110°-120°	1066.3	10.4
120°-130°	852.5	8.3
130°-140°	669.8	6.6
140°-150°	513.6	5.0
150°-160°	369.4	3.6
160°-170°	225.9	2.2
170°-180°	76.1	0.7
0°-30°	1490.1	14.6
0°-40°	2401.6	23.5
0°-60°	4092.6	40.0
0°-90°	5028.9	49.2
90°-120°	2485.0	24.3
90°-150°	4521.0	44.2
90°-180°	5192.0	50.8
0°-180°	10221.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1981	1958	1965	1960	1956	188
15°	1885	1861	1864	1860	1857	531
25°	1723	1694	1692	1681	1686	792
35°	1481	1461	1460	1446	1452	926
45°	1190	1180	1175	1171	1170	918
55°	882	881	882	870	868	787
65°	559	576	586	564	545	554
75°	258	281	296	276	251	276
85°	44	57	64	61	57	57
90°	3	10	18	23	23	5
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.3	1975.3	1975.3	1975.3	1975.3
2.5°	1986.5	1970.1	1975.3	1971.0	1961.4
5°	1980.6	1958.4	1964.9	1959.6	1956.2
7.5°	1960.4	1940.0	1944.7	1939.1	1937.1
10°	1942.3	1921.9	1926.6	1919.6	1916.2
12.5°	1921.4	1899.6	1904.3	1897.3	1895.3
15°	1884.8	1861.0	1864.0	1860.4	1857.0
17.5°	1842.4	1818.2	1818.7	1813.1	1812.4
20°	1811.7	1786.2	1783.9	1777.0	1780.4
22.5°	1778.3	1751.4	1749.1	1739.5	1744.2
25°	1723.0	1694.1	1691.7	1681.3	1686.4
27.5°	1658.9	1630.4	1630.4	1615.9	1621.3
30°	1611.6	1584.4	1587.2	1570.0	1576.8
32.5°	1561.5	1537.0	1538.5	1521.3	1528.1
35°	1481.1	1460.7	1460.2	1446.4	1451.5
37.5°	1398.9	1380.9	1378.0	1370.1	1371.4
40°	1341.8	1326.5	1321.0	1315.7	1315.7
42.5°	1282.0	1268.0	1262.5	1258.6	1257.3
45°	1190.4	1180.2	1174.8	1171.2	1169.5
47.5°	1099.9	1090.4	1085.7	1083.2	1081.5
50°	1037.3	1030.5	1028.6	1023.3	1021.6
52.5°	974.6	970.5	968.7	962.0	960.3
55°	882.4	880.7	882.4	870.2	868.5
57.5°	786.3	789.0	794.7	778.2	774.1
60°	722.3	729.1	736.2	716.9	710.1
62.5°	656.8	667.7	677.7	655.6	646.0
65°	558.7	575.7	586.5	563.5	544.7
67.5°	464.0	485.1	498.1	473.3	452.2
70°	398.5	422.4	436.8	411.9	388.1
72.5°	341.5	368.0	379.8	356.2	332.4
75°	257.6	281.4	295.9	276.1	250.6
77.5°	182.7	205.2	217.2	200.0	178.9
80°	134.0	157.8	167.1	152.8	135.8
82.5°	95.0	114.8	121.1	112.5	100.9
85°	43.5	57.1	64.4	60.8	57.4
87.5°	11.6	22.7	30.0	31.1	32.4
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)