

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: P564825

Luminaire Tested: **SQ4-PW1-0U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564825
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PW1-0U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

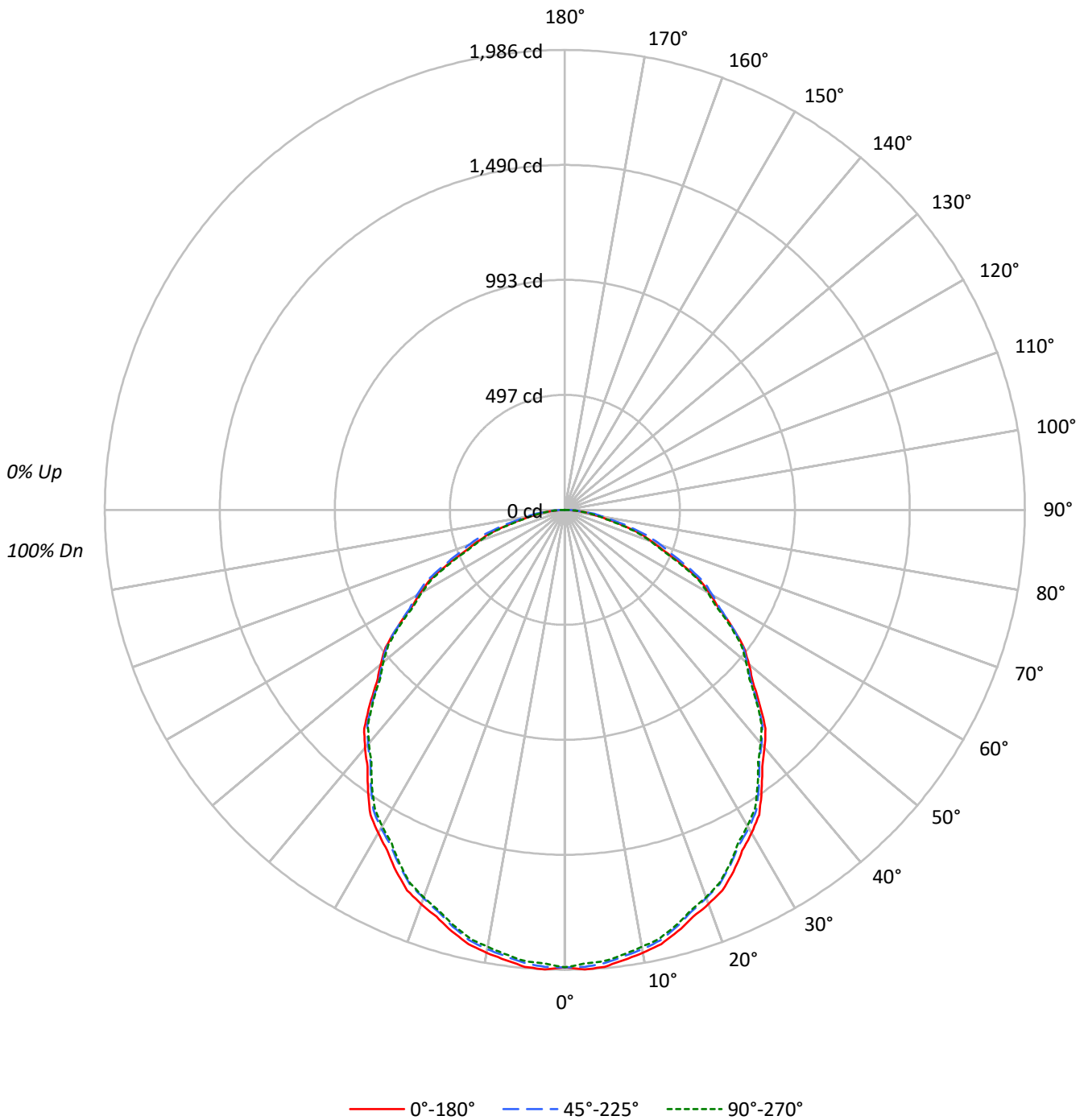
Lumens per Lamp: N/A
Luminaire Lumens: 5025.8 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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	3.7
10°-20°	525.2	10.4
20°-30°	779.0	15.5
30°-40°	911.5	18.1
40°-50°	907.4	18.1
50°-60°	783.6	15.6
60°-70°	564.1	11.2
70°-80°	295.8	5.9
80°-90°	73.3	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1490.1	29.6
0°-40°	2401.6	47.8
0°-60°	4092.6	81.4
0°-90°	5025.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5025.8	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	59
90°	0	0	0	0	0	



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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°	11.1	20.7	26.5	26.5	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)