

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: P561972

Luminaire Tested: **SQ4-PR1-0U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561972
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-125D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4761.4 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

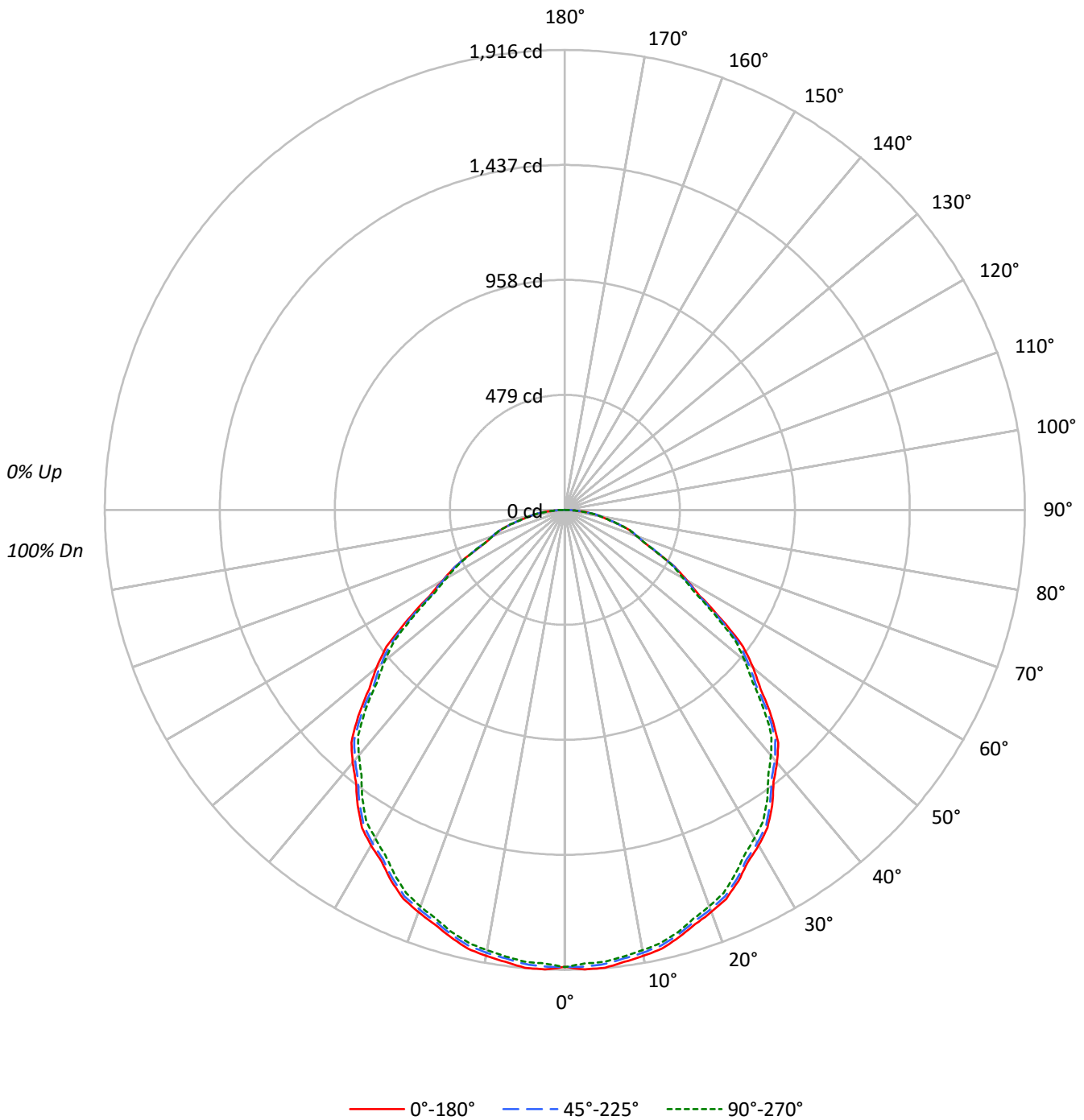
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17572	17572	17572
5°	17731	17594	17503
10°	17675	17552	17459
15°	17597	17487	17394
20°	17508	17396	17266
25°	17385	17268	17068
30°	17198	17075	16830
35°	16944	16796	16556
40°	16558	16380	16083
45°	15883	15604	15283
50°	14694	14341	14058
55°	12825	12534	12270
60°	10808	10715	10505
65°	9348	9383	9311
70°	8586	8629	8629
75°	8245	8245	8306
80°	7757	7842	7757
85°	6256	6944	6944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	3.8
10°-20°	515.3	10.8
20°-30°	777.3	16.3
30°-40°	926.1	19.5
40°-50°	913.1	19.2
50°-60°	697.8	14.7
60°-70°	431.8	9.1
70°-80°	245.3	5.2
80°-90°	74.6	1.6
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°	1472.7	30.9
0°-40°	2398.8	50.4
0°-60°	4009.7	84.2
0°-90°	4761.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1914	1894	1900	1893	1890	182
15°	1842	1823	1831	1824	1821	520
25°	1708	1687	1696	1678	1677	786
35°	1504	1487	1491	1472	1470	939
45°	1217	1201	1196	1174	1171	933
55°	797	784	779	766	763	714
65°	428	425	430	426	426	434
75°	231	231	231	233	233	244
85°	59	62	66	66	66	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.6	1904.6	1904.6	1904.6	1904.6
2.5°	1916.5	1899.8	1904.6	1900.5	1891.5
5°	1914.5	1893.6	1899.7	1893.1	1889.9
7.5°	1899.7	1879.2	1885.3	1878.7	1876.8
10°	1886.6	1867.4	1873.5	1866.8	1863.6
12.5°	1872.2	1851.6	1859.0	1851.1	1847.9
15°	1842.3	1823.1	1830.8	1824.2	1821.0
17.5°	1809.5	1789.0	1796.7	1789.1	1784.9
20°	1783.2	1764.0	1771.8	1760.2	1758.6
22.5°	1754.4	1735.1	1742.9	1727.5	1727.1
25°	1707.8	1686.9	1696.3	1678.2	1676.6
27.5°	1652.3	1633.1	1640.9	1622.4	1620.5
30°	1614.3	1595.0	1602.8	1583.0	1579.8
32.5°	1571.0	1553.0	1559.5	1539.8	1537.8
35°	1504.4	1486.7	1491.2	1471.5	1469.9
37.5°	1428.6	1412.5	1415.1	1393.4	1391.8
40°	1374.8	1358.7	1360.0	1337.0	1335.4
42.5°	1315.7	1299.7	1298.3	1275.3	1273.7
45°	1217.3	1201.2	1195.9	1174.5	1171.3
47.5°	1105.1	1089.0	1079.1	1061.7	1059.4
50°	1023.7	1007.6	999.1	984.2	979.4
52.5°	935.8	919.7	912.5	898.9	894.1
55°	797.3	784.5	779.2	766.1	762.8
57.5°	665.7	657.1	655.6	642.7	641.4
60°	585.7	580.9	580.7	569.3	569.3
62.5°	517.4	513.9	516.4	508.9	507.6
65°	428.2	425.0	429.8	426.5	426.5
67.5°	357.6	357.6	360.6	359.3	359.3
70°	318.3	318.3	319.9	319.9	319.9
72.5°	282.8	281.5	285.8	285.7	284.5
75°	231.3	231.3	231.3	233.0	233.0
77.5°	180.1	180.5	181.8	181.4	180.1
80°	146.0	147.6	147.6	146.0	146.0
82.5°	111.9	113.5	113.5	113.2	111.9
85°	59.1	62.3	65.6	65.6	65.6
87.5°	17.1	22.2	26.2	26.2	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)