

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: P562813

Luminaire Tested: **SQ4-PC3-0U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562813
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-050D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5103.8 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

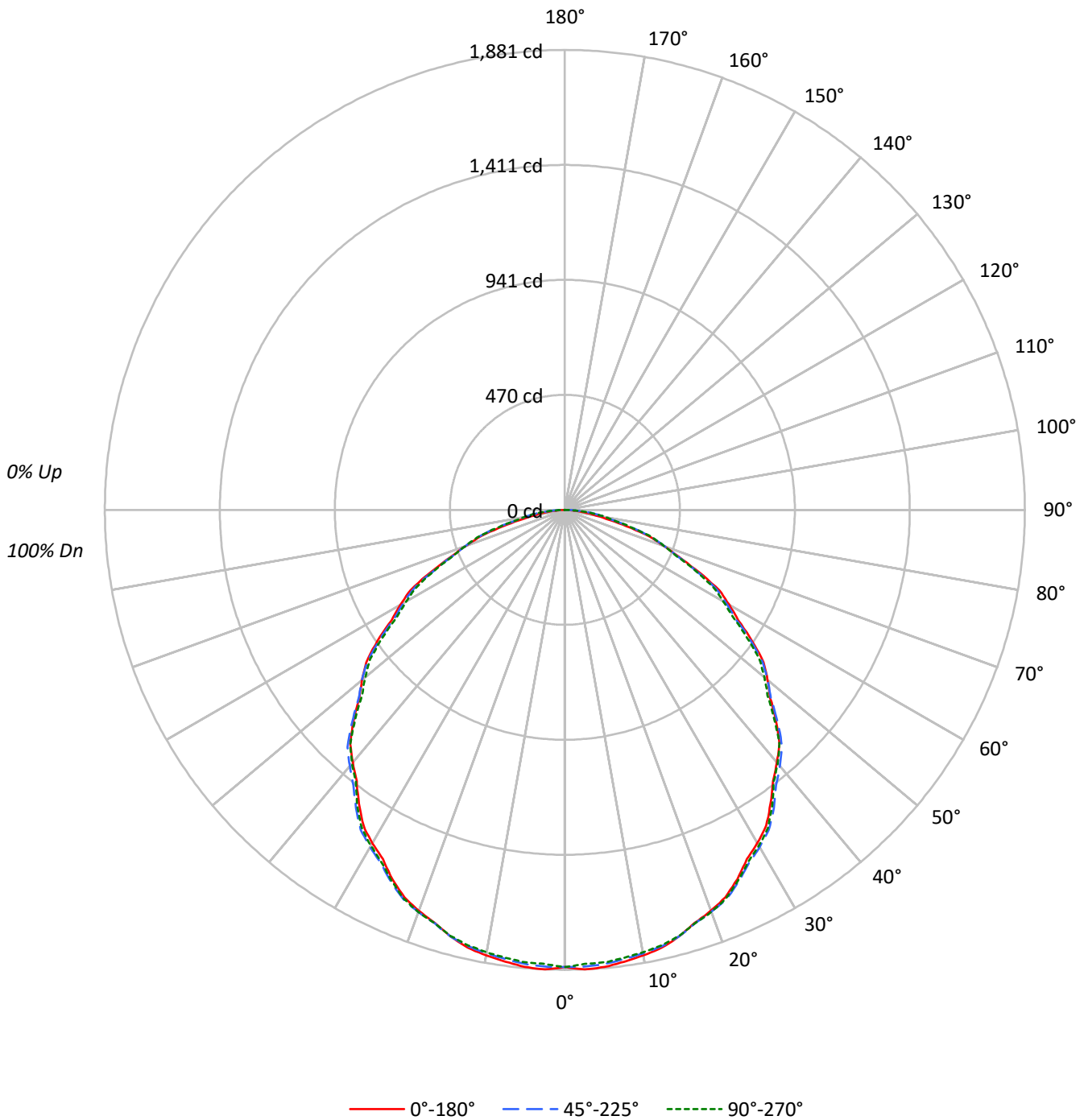
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5751	5751	5751
5°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5745
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5354	5272
50°	5178	5178	5095
55°	5013	4948	4874
60°	4771	4676	4601
65°	4410	4322	4284
70°	3861	3893	3877
75°	3107	3436	3457
80°	2209	2913	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	3.5
10°-20°	507.9	10.0
20°-30°	769.1	15.1
30°-40°	922.1	18.1
40°-50°	940.2	18.4
50°-60°	820.7	16.1
60°-70°	587.6	11.5
70°-80°	302.6	5.9
80°-90°	76.5	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°	1454.0	28.5
0°-40°	2376.1	46.6
0°-60°	4137.0	81.1
0°-90°	5103.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5103.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1877	1858	1865	1860	1858	178
15°	1806	1791	1806	1806	1804	509
25°	1668	1656	1680	1674	1674	767
35°	1467	1463	1489	1479	1479	917
45°	1222	1219	1231	1216	1212	941
55°	935	923	923	909	909	833
65°	606	592	594	589	589	599
75°	262	273	289	291	291	283
85°	38	58	69	71	69	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1870.1	1870.1	1870.1	1870.1	1870.1
2.5°	1881.2	1864.9	1870.1	1865.8	1859.0
5°	1877.0	1858.4	1864.9	1859.6	1858.0
7.5°	1863.5	1844.9	1853.5	1850.0	1848.3
10°	1851.0	1832.4	1842.4	1838.9	1837.2
12.5°	1834.4	1817.1	1828.5	1825.0	1824.7
15°	1806.0	1790.8	1806.0	1806.0	1804.3
17.5°	1770.3	1756.5	1772.8	1773.8	1772.8
20°	1745.4	1730.2	1750.6	1748.9	1750.6
22.5°	1714.9	1702.4	1724.3	1719.8	1721.5
25°	1667.5	1655.6	1679.6	1674.4	1674.4
27.5°	1611.4	1602.9	1629.0	1623.5	1623.5
30°	1574.0	1565.5	1593.0	1586.1	1586.1
32.5°	1532.4	1526.7	1552.9	1544.5	1544.5
35°	1466.6	1463.2	1489.1	1478.7	1478.7
37.5°	1398.7	1395.7	1419.2	1406.6	1402.6
40°	1348.9	1347.2	1367.9	1354.1	1354.1
42.5°	1299.0	1297.3	1315.3	1298.7	1298.7
45°	1222.5	1219.1	1231.1	1215.5	1212.1
47.5°	1139.0	1135.6	1143.2	1126.2	1124.5
50°	1082.2	1078.8	1082.2	1066.6	1064.9
52.5°	1024.0	1017.9	1018.5	1002.9	1002.6
55°	935.0	923.2	922.9	909.1	909.1
57.5°	840.8	825.3	826.6	814.8	813.1
60°	775.7	758.8	760.2	749.7	748.0
62.5°	712.0	692.4	696.4	684.6	684.3
65°	606.0	592.5	593.9	588.7	588.7
67.5°	504.2	491.7	500.8	496.6	496.3
70°	429.4	421.0	432.9	432.8	431.2
72.5°	360.2	359.8	374.7	374.7	375.7
75°	261.5	273.3	289.2	290.9	290.9
77.5°	174.5	195.5	213.0	213.7	213.3
80°	124.7	148.4	164.5	167.9	166.2
82.5°	84.5	109.6	122.9	126.4	124.7
85°	38.1	58.4	69.3	71.0	69.3
87.5°	11.1	23.3	27.7	27.6	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)