

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: P562863

Luminaire Tested: **SQ4-PC3-0U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562863
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-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

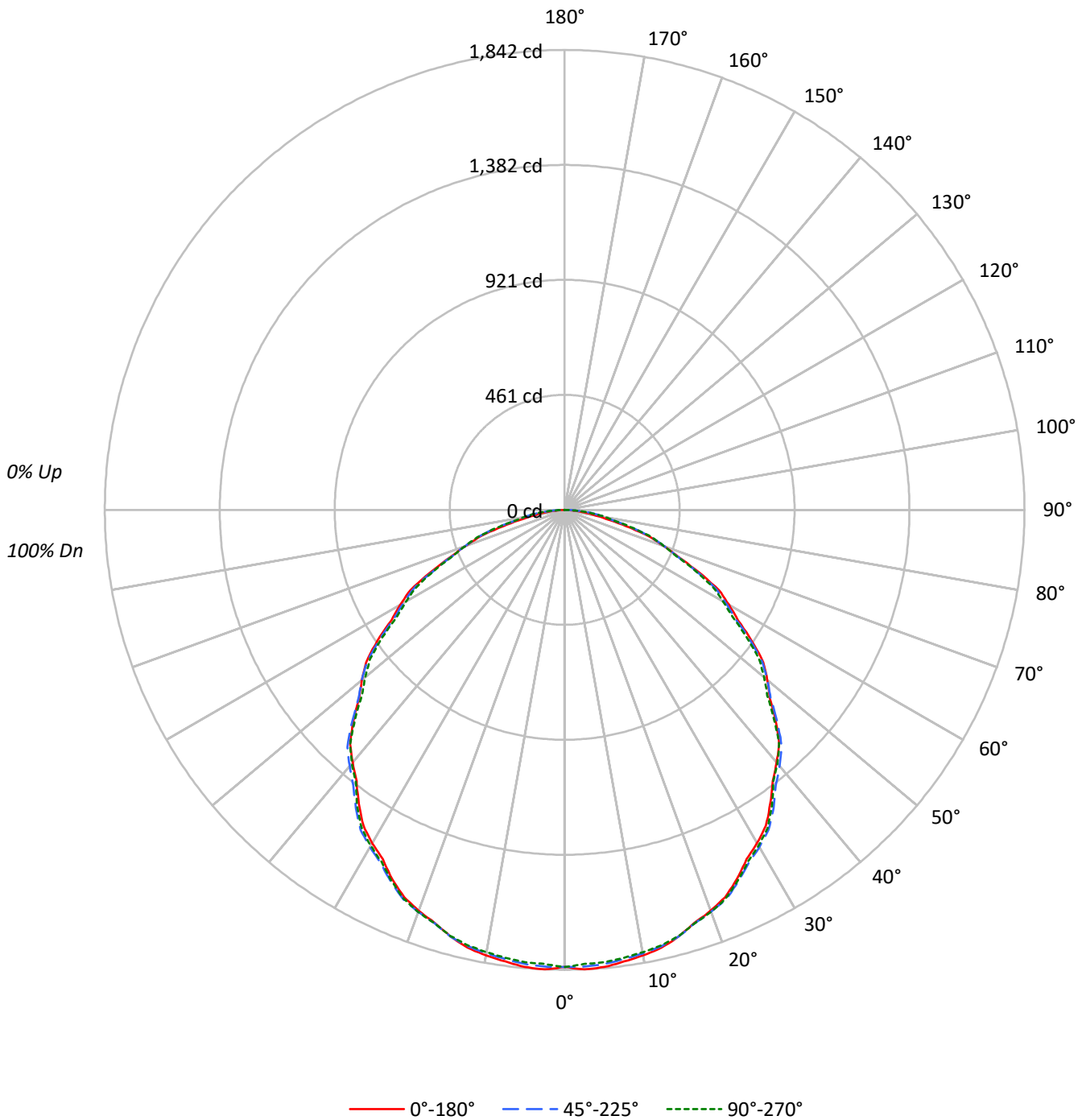
Lumens per Lamp: N/A
Luminaire Lumens: 4997.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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°	11263	11263	11263
5°	11348	11274	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10948	10873
40°	10605	10754	10646
45°	10412	10486	10323
50°	10140	10140	9978
55°	9819	9691	9545
60°	9344	9156	9011
65°	8636	8465	8390
70°	7562	7623	7593
75°	6084	6728	6768
80°	4325	5706	5767
85°	2632	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.5
10°-20°	497.3	10.0
20°-30°	753.1	15.1
30°-40°	902.9	18.1
40°-50°	920.6	18.4
50°-60°	803.7	16.1
60°-70°	575.4	11.5
70°-80°	296.3	5.9
80°-90°	74.9	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°	1423.7	28.5
0°-40°	2326.6	46.6
0°-60°	4050.9	81.1
0°-90°	4997.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4997.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1838	1820	1826	1821	1819	174
15°	1768	1754	1768	1768	1767	499
25°	1633	1621	1645	1640	1640	751
35°	1436	1433	1458	1448	1448	898
45°	1197	1194	1206	1190	1187	921
55°	916	904	904	890	890	816
65°	593	580	582	576	576	587
75°	256	268	283	285	285	277
85°	37	57	68	70	68	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1842.0	1826.1	1831.1	1826.9	1820.3
5°	1837.9	1819.7	1826.0	1820.9	1819.3
7.5°	1824.7	1806.5	1814.9	1811.4	1809.8
10°	1812.5	1794.2	1804.0	1800.6	1798.9
12.5°	1796.2	1779.3	1790.4	1787.0	1786.7
15°	1768.4	1753.5	1768.4	1768.4	1766.7
17.5°	1733.5	1719.9	1735.8	1736.8	1735.8
20°	1709.1	1694.1	1714.1	1712.5	1714.1
22.5°	1679.2	1667.0	1688.4	1684.0	1685.7
25°	1632.8	1621.2	1644.6	1639.5	1639.5
27.5°	1577.8	1569.5	1595.1	1589.7	1589.7
30°	1541.2	1532.9	1559.9	1553.1	1553.1
32.5°	1500.5	1494.9	1520.5	1512.4	1512.4
35°	1436.1	1432.8	1458.1	1448.0	1448.0
37.5°	1369.6	1366.6	1389.6	1377.3	1373.4
40°	1320.8	1319.1	1339.4	1325.9	1325.9
42.5°	1272.0	1270.3	1287.9	1271.6	1271.6
45°	1197.0	1193.7	1205.5	1190.2	1186.8
47.5°	1115.3	1112.0	1119.4	1102.7	1101.1
50°	1059.7	1056.4	1059.7	1044.4	1042.7
52.5°	1002.7	996.7	997.3	982.0	981.7
55°	915.6	904.0	903.7	890.1	890.1
57.5°	823.3	808.1	809.4	797.9	796.2
60°	759.6	743.0	744.3	734.1	732.5
62.5°	697.2	678.0	681.9	670.4	670.1
65°	593.4	580.2	581.6	576.5	576.5
67.5°	493.7	481.5	490.3	486.3	485.9
70°	420.5	412.2	423.9	423.8	422.2
72.5°	352.7	352.3	366.9	366.9	367.9
75°	256.0	267.6	283.1	284.8	284.8
77.5°	170.9	191.5	208.5	209.2	208.9
80°	122.1	145.3	161.1	164.4	162.8
82.5°	82.7	107.3	120.4	123.7	122.1
85°	37.3	57.2	67.8	69.5	67.8
87.5°	10.9	22.8	27.1	27.1	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)