

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: P562793

Luminaire Tested: **SQ4-PC3-0U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562793
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-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

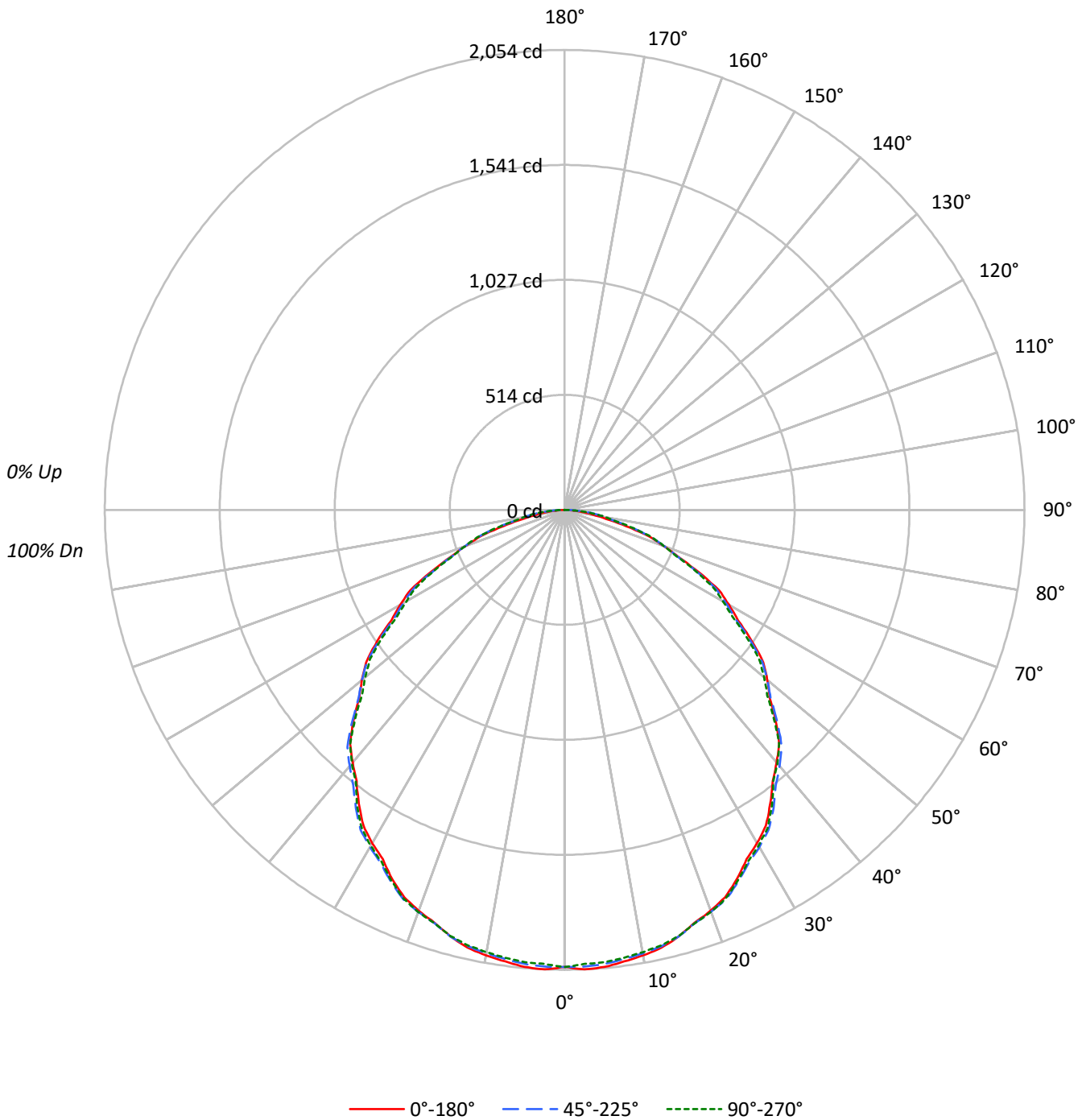
Lumens per Lamp: N/A
Luminaire Lumens: 5572.6 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6280	6280	6280
5°	6327	6286	6263
10°	6312	6282	6264
15°	6278	6278	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6104	6062
40°	5913	5996	5936
45°	5805	5846	5756
50°	5653	5653	5563
55°	5474	5403	5322
60°	5210	5105	5023
65°	4815	4719	4678
70°	4216	4250	4233
75°	3392	3751	3774
80°	2410	3181	3214
85°	1468	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	3.5
10°-20°	554.5	10.0
20°-30°	839.8	15.1
30°-40°	1006.8	18.1
40°-50°	1026.6	18.4
50°-60°	896.1	16.1
60°-70°	641.6	11.5
70°-80°	330.4	5.9
80°-90°	83.6	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°	1587.6	28.5
0°-40°	2594.4	46.6
0°-60°	4517.1	81.1
0°-90°	5572.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5572.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2049	2029	2036	2030	2029	195
15°	1972	1955	1972	1972	1970	556
25°	1821	1808	1834	1828	1828	838
35°	1601	1598	1626	1615	1615	1001
45°	1335	1331	1344	1327	1323	1027
55°	1021	1008	1008	993	993	910
65°	662	647	648	643	643	654
75°	286	298	316	318	318	309
85°	42	64	76	78	76	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2041.9	2041.9	2041.9	2041.9	2041.9
2.5°	2054.0	2036.2	2041.9	2037.2	2029.8
5°	2049.4	2029.1	2036.2	2030.5	2028.6
7.5°	2034.7	2014.3	2023.7	2019.9	2018.0
10°	2021.1	2000.7	2011.6	2007.8	2005.9
12.5°	2002.9	1984.1	1996.5	1992.7	1992.3
15°	1971.9	1955.3	1971.9	1971.9	1970.0
17.5°	1933.0	1917.8	1935.6	1936.7	1935.6
20°	1905.7	1889.1	1911.4	1909.6	1911.4
22.5°	1872.5	1858.8	1882.7	1877.8	1879.6
25°	1820.7	1807.7	1833.9	1828.2	1828.2
27.5°	1759.4	1750.2	1778.7	1772.6	1772.6
30°	1718.6	1709.3	1739.4	1731.8	1731.8
32.5°	1673.2	1666.9	1695.5	1686.4	1686.4
35°	1601.4	1597.7	1625.9	1614.6	1614.6
37.5°	1527.2	1523.9	1549.5	1535.8	1531.4
40°	1472.8	1470.9	1493.6	1478.5	1478.5
42.5°	1418.3	1416.5	1436.1	1418.0	1418.0
45°	1334.8	1331.1	1344.2	1327.1	1323.4
47.5°	1243.6	1239.9	1248.2	1229.6	1227.8
50°	1181.6	1177.9	1181.6	1164.6	1162.7
52.5°	1118.1	1111.5	1112.1	1095.0	1094.7
55°	1020.9	1008.0	1007.7	992.6	992.6
57.5°	918.1	901.1	902.6	889.7	887.8
60°	847.0	828.5	830.0	818.6	816.7
62.5°	777.4	756.0	760.4	747.5	747.2
65°	661.7	646.9	648.5	642.8	642.8
67.5°	550.5	536.9	546.8	542.2	541.8
70°	468.9	459.6	472.7	472.6	470.8
72.5°	393.2	392.9	409.1	409.2	410.3
75°	285.5	298.4	315.7	317.6	317.6
77.5°	190.6	213.5	232.5	233.3	232.9
80°	136.1	162.0	179.6	183.3	181.5
82.5°	92.3	119.6	134.2	138.0	136.1
85°	41.6	63.8	75.6	77.5	75.6
87.5°	12.1	25.4	30.2	30.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)