

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: P562797

Luminaire Tested: **SQ4-PC3-0U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562797
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5903.9 lumens
Efficiency: N/A
Efficacy: 110.6 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

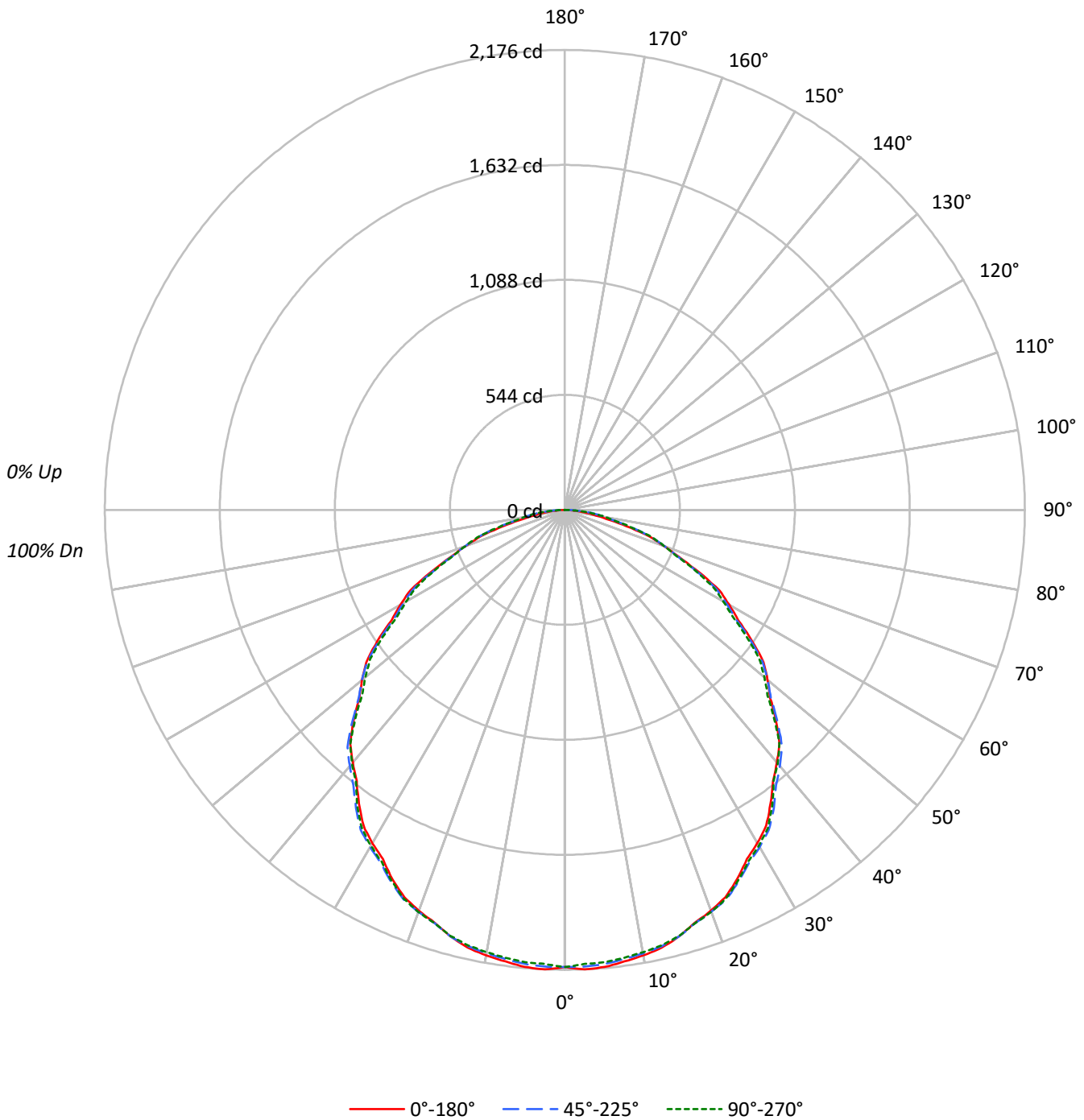
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6651	6651	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6515
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5799	5724	5638
60°	5519	5408	5322
65°	5101	4999	4956
70°	4466	4502	4484
75°	3594	3975	3998
80°	2554	3370	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.5
10°-20°	587.5	10.0
20°-30°	889.7	15.1
30°-40°	1066.6	18.1
40°-50°	1087.6	18.4
50°-60°	949.4	16.1
60°-70°	679.7	11.5
70°-80°	350.1	5.9
80°-90°	88.5	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°	1681.9	28.5
0°-40°	2748.6	46.6
0°-60°	4785.6	81.1
0°-90°	5903.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5903.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2171	2150	2157	2151	2149	206
15°	2089	2072	2089	2089	2087	589
25°	1929	1915	1943	1937	1937	888
35°	1696	1693	1723	1711	1711	1061
45°	1414	1410	1424	1406	1402	1089
55°	1082	1068	1068	1052	1052	964
65°	701	685	687	681	681	693
75°	302	316	334	336	336	327
85°	44	68	80	82	80	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2163.2	2163.2	2163.2	2163.2	2163.2
2.5°	2176.1	2157.3	2163.2	2158.3	2150.4
5°	2171.2	2149.7	2157.2	2151.2	2149.2
7.5°	2155.6	2134.1	2144.0	2140.0	2138.0
10°	2141.2	2119.7	2131.2	2127.1	2125.2
12.5°	2122.0	2102.0	2115.2	2111.2	2110.8
15°	2089.1	2071.5	2089.1	2089.1	2087.1
17.5°	2047.9	2031.8	2050.7	2051.8	2050.7
20°	2019.0	2001.4	2025.0	2023.1	2025.0
22.5°	1983.8	1969.3	1994.6	1989.4	1991.4
25°	1928.9	1915.2	1942.9	1936.9	1936.9
27.5°	1864.0	1854.2	1884.4	1878.0	1878.0
30°	1820.7	1810.9	1842.8	1834.7	1834.7
32.5°	1772.7	1766.0	1796.3	1786.7	1786.7
35°	1696.5	1692.6	1722.6	1710.6	1710.6
37.5°	1618.0	1614.5	1641.7	1627.1	1622.4
40°	1560.3	1558.4	1582.4	1566.3	1566.3
42.5°	1502.6	1500.7	1521.5	1502.2	1502.2
45°	1414.1	1410.2	1424.1	1406.0	1402.1
47.5°	1317.6	1313.7	1322.4	1302.7	1300.7
50°	1251.9	1248.0	1251.9	1233.8	1231.8
52.5°	1184.6	1177.5	1178.2	1160.1	1159.7
55°	1081.6	1067.9	1067.6	1051.6	1051.6
57.5°	972.7	954.6	956.2	942.6	940.6
60°	897.3	877.8	879.3	867.3	865.3
62.5°	823.6	800.9	805.6	792.0	791.6
65°	701.0	685.4	687.0	681.0	681.0
67.5°	583.3	568.8	579.3	574.5	574.1
70°	496.7	487.0	500.7	500.7	498.7
72.5°	416.6	416.2	433.4	433.5	434.7
75°	302.5	316.2	334.5	336.5	336.5
77.5°	201.9	226.2	246.4	247.2	246.8
80°	144.2	171.6	190.3	194.2	192.3
82.5°	97.7	126.7	142.2	146.2	144.2
85°	44.1	67.6	80.1	82.1	80.1
87.5°	12.8	26.9	32.0	32.0	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)