

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: P562601

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562601
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-050D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11216.4 lumens
Efficiency: N/A
Efficacy: 140.9 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: General Diffuse

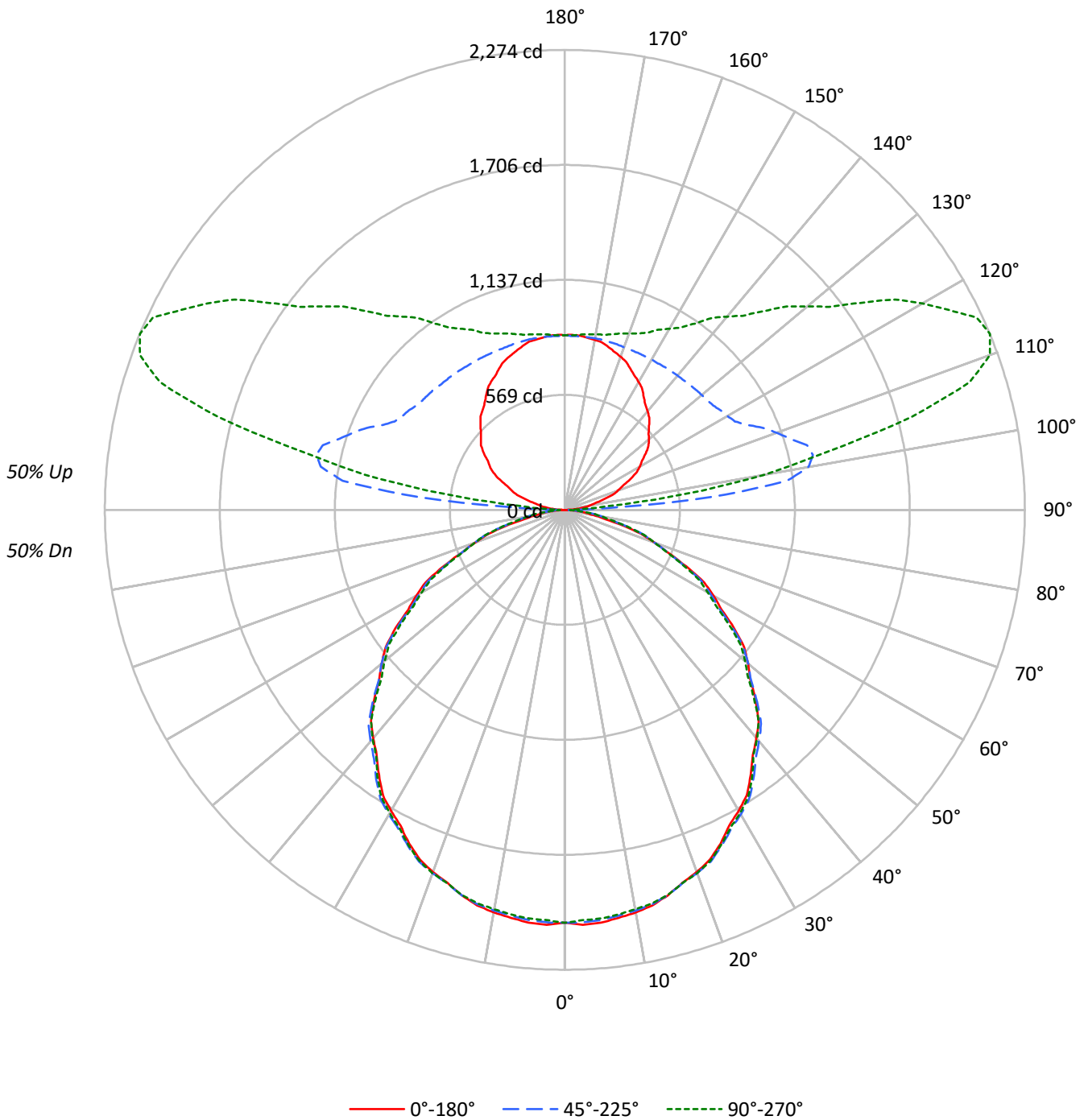
Input Watts (W): 79.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42				
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35				
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30				
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25				
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22				
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17				
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15				
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14				
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12				

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	1.7
10°-20°	554.5	4.9
20°-30°	839.8	7.5
30°-40°	1006.8	9.0
40°-50°	1026.6	9.2
50°-60°	896.1	8.0
60°-70°	641.6	5.7
70°-80°	330.4	2.9
80°-90°	86.9	0.8
90°-100°	414.7	3.7
100°-110°	1126.6	10.0
110°-120°	1158.3	10.3
120°-130°	926.1	8.3
130°-140°	727.6	6.5
140°-150°	557.9	5.0
150°-160°	401.2	3.6
160°-170°	245.4	2.2
170°-180°	82.7	0.7
0°-30°	1587.6	14.2
0°-40°	2594.4	23.1
0°-60°	4517.1	40.3
0°-90°	5575.9	49.7
90°-120°	2699.5	24.1
90°-150°	4911.2	43.8
90°-180°	5640.0	50.3
0°-180°	11216.4	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	57
90°	3	11	19	25	25	6
95°	61	227	722	314	211	65
105°	200	311	1239	1886	1775	212
115°	356	432	992	1973	2247	351
125°	489	557	897	1512	1783	436
135°	589	654	872	1231	1389	455
145°	680	729	861	1046	1125	427
155°	769	797	856	940	967	355
165°	833	844	858	894	897	235
175°	864	867	861	872	869	82
180°	864	864	864	864	864	

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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°	12.7	27.6	34.1	35.2	32.2
90°	2.8	10.9	19.4	25.0	25.0
92.5°	25.0	113.5	197.2	84.7	71.7
95°	61.1	226.8	722.2	314.3	211.1
97.5°	101.1	250.5	1107.2	861.4	605.0
100°	127.8	266.3	1225.0	1241.8	1002.8
102.5°	154.4	282.1	1256.1	1535.7	1325.0
105°	200.0	311.4	1238.9	1886.3	1775.0
107.5°	247.2	345.5	1167.2	2067.3	2098.3
110°	280.6	370.2	1113.9	2103.0	2236.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	309.4	394.7	1060.5	2073.4	2273.8
115°	355.5	431.6	991.6	1972.9	2247.2
117.5°	398.9	471.7	947.8	1830.3	2139.4
120°	427.8	498.4	927.8	1734.7	2041.6
122.5°	452.2	522.8	914.4	1638.9	1935.0
125°	488.9	556.8	897.2	1511.7	1783.3
127.5°	521.7	589.0	887.8	1415.3	1648.3
130°	541.7	606.8	883.3	1354.7	1563.9
132.5°	561.7	626.8	878.9	1303.1	1488.3
135°	588.9	654.1	872.2	1231.3	1388.9
137.5°	618.3	677.5	868.9	1168.0	1300.5
140°	636.1	693.1	866.6	1127.7	1247.2
142.5°	653.9	706.6	864.4	1096.1	1196.1
145°	680.5	729.4	861.1	1046.2	1125.0
147.5°	710.5	752.4	858.3	1006.9	1068.9
150°	730.5	765.8	858.3	984.4	1033.3
152.5°	746.1	777.1	856.1	964.2	1004.4
155°	769.4	796.6	855.5	939.5	966.6
157.5°	792.2	813.4	855.5	922.7	943.3
160°	805.5	824.6	855.5	911.5	927.8
162.5°	818.9	833.5	857.8	902.5	914.4
165°	833.3	844.2	858.3	894.5	897.2
167.5°	848.3	853.7	861.1	885.0	887.2
170°	852.8	858.2	861.1	880.5	880.5
172.5°	857.2	860.5	861.1	876.1	876.1
175°	863.9	866.6	861.1	872.1	869.4
177.5°	866.1	866.1	859.4	868.2	863.9
180°	863.9	863.9	863.9	863.9	863.9

(END OF REPORT)