

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: P561869

Luminaire Tested: **SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561869
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

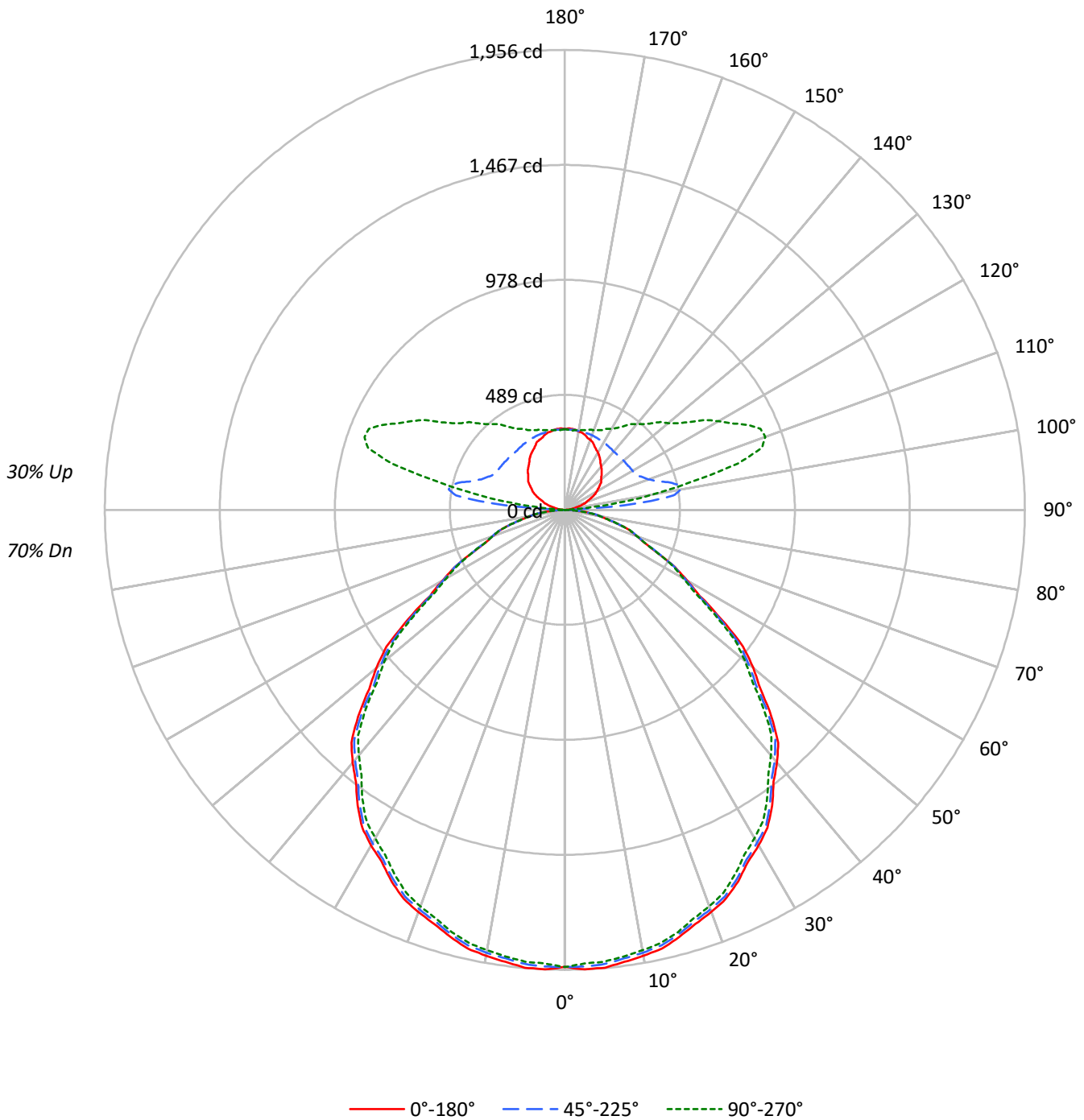
Lumens per Lamp: N/A
Luminaire Lumens: 6991.7 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 71.5
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	103	98	94	91	97	93	90	87	83	81	78	74	72	71	66	65	63	59
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	50
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	43
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	37
5	72	61	52	46	68	58	50	45	52	46	42	47	42	38	43	39	35	33
6	67	55	46	40	63	52	45	39	47	41	36	43	38	34	39	34	31	29
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	35	31	28	26
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	33	28	25	23
9	54	41	34	28	51	40	32	28	36	30	26	33	28	24	30	26	23	21
10	50	38	31	26	48	36	30	25	33	28	24	31	26	22	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17937	17937	17937
5°	18099	17959	17865
10°	18041	17915	17822
15°	17962	17850	17754
20°	17871	17756	17625
25°	17746	17627	17422
30°	17554	17429	17180
35°	17295	17144	16899
40°	16900	16719	16417
45°	16212	15927	15600
50°	14998	14638	14349
55°	13090	12794	12526
60°	11031	10939	10723
65°	9542	9577	9505
70°	8764	8808	8808
75°	8416	8416	8477
80°	7917	8007	7917
85°	6383	7093	7093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	2.6
10°-20°	526.0	7.5
20°-30°	793.4	11.3
30°-40°	945.3	13.5
40°-50°	932.0	13.3
50°-60°	712.3	10.2
60°-70°	440.8	6.3
70°-80°	250.4	3.6
80°-90°	76.2	1.1
90°-100°	156.4	2.2
100°-110°	444.9	6.4
110°-120°	426.3	6.1
120°-130°	337.4	4.8
130°-140°	270.8	3.9
140°-150°	212.0	3.0
150°-160°	155.1	2.2
160°-170°	96.1	1.4
170°-180°	32.6	0.5
0°-30°	1503.2	21.5
0°-40°	2448.5	35.0
0°-60°	4092.8	58.5
0°-90°	4860.1	69.5
90°-120°	1027.6	14.7
90°-150°	1847.8	26.4
90°-180°	2132.0	30.5
0°-180°	6991.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1954	1933	1939	1932	1929	185
15°	1880	1861	1869	1862	1859	531
25°	1743	1722	1732	1713	1711	802
35°	1536	1518	1522	1502	1500	958
45°	1242	1226	1221	1199	1196	952
55°	814	801	795	782	779	729
65°	437	434	439	435	435	443
75°	236	236	236	238	238	249
85°	60	64	67	67	67	70
90°	0	0	0	0	0	3
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	



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CATALOG NUMBER: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1944.1	1944.1	1944.1	1944.1	1944.1
2.5°	1956.2	1939.1	1944.1	1939.9	1930.7
5°	1954.2	1932.9	1939.1	1932.3	1929.0
7.5°	1939.1	1918.1	1924.4	1917.6	1915.7
10°	1925.7	1906.1	1912.3	1905.5	1902.3
12.5°	1911.0	1890.0	1897.6	1889.5	1886.2
15°	1880.5	1860.8	1868.8	1862.0	1858.7
17.5°	1847.0	1826.0	1833.9	1826.1	1821.9
20°	1820.2	1800.6	1808.5	1796.7	1795.1
22.5°	1790.7	1771.1	1779.0	1763.3	1762.9
25°	1743.2	1721.9	1731.5	1713.0	1711.4
27.5°	1686.6	1666.9	1674.9	1656.1	1654.1
30°	1647.7	1628.1	1636.0	1615.8	1612.6
32.5°	1603.5	1585.2	1591.8	1571.7	1569.7
35°	1535.5	1517.5	1522.1	1502.0	1500.4
37.5°	1458.2	1441.8	1444.4	1422.3	1420.7
40°	1403.2	1386.9	1388.2	1364.7	1363.1
42.5°	1343.0	1326.6	1325.2	1301.7	1300.1
45°	1242.5	1226.1	1220.7	1198.9	1195.6
47.5°	1128.0	1111.6	1101.5	1083.7	1081.4
50°	1044.9	1028.5	1019.8	1004.6	999.7
52.5°	955.1	938.8	931.4	917.5	912.6
55°	813.8	800.7	795.4	781.9	778.7
57.5°	679.5	670.7	669.1	656.0	654.7
60°	597.8	592.9	592.8	581.1	581.1
62.5°	528.1	524.5	527.1	519.4	518.1
65°	437.1	433.8	438.7	435.4	435.4
67.5°	365.0	365.0	368.1	366.7	366.7
70°	324.9	324.9	326.5	326.5	326.5
72.5°	288.7	287.4	291.7	291.7	290.4
75°	236.1	236.1	236.1	237.8	237.8
77.5°	183.9	184.2	185.5	185.2	183.9
80°	149.0	150.7	150.7	149.0	149.0
82.5°	114.2	115.8	115.9	115.5	114.2
85°	60.3	63.6	67.0	67.0	67.0
87.5°	17.4	22.7	26.8	26.8	25.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.0</i>	138.4	360.8	788.7	901.5
115°	<i>128.5</i>	155.3	343.8	728.3	855.3
117.5°	<i>144.8</i>	170.0	333.8	662.4	796.8
120°	<i>157.9</i>	178.9	332.7	624.7	753.5
122.5°	<i>168.3</i>	189.4	330.1	591.6	711.2
125°	<i>181.4</i>	201.1	328.2	544.6	651.1
127.5°	<i>195.6</i>	214.1	327.1	516.5	604.2
130°	<i>202.9</i>	221.4	325.5	496.9	573.4
132.5°	<i>210.7</i>	228.7	325.5	481.6	552.1
135°	<i>221.8</i>	240.3	324.2	460.0	520.0
137.5°	<i>232.3</i>	250.2	324.1	441.7	493.5
140°	<i>240.1</i>	258.6	323.6	426.5	476.2
142.5°	<i>249.0</i>	264.4	325.2	414.4	459.0
145°	<i>261.6</i>	275.0	326.8	398.1	433.8
147.5°	<i>272.4</i>	285.5	329.7	381.7	412.6
150°	<i>281.8</i>	290.8	330.8	376.3	398.0
152.5°	<i>289.1</i>	298.6	331.8	368.9	389.1
155°	<i>298.8</i>	305.8	334.7	359.8	374.5
157.5°	<i>310.8</i>	315.0	335.3	355.7	366.1
160°	<i>317.1</i>	320.3	337.9	352.5	361.4
162.5°	<i>320.7</i>	324.4	338.5	349.8	356.7
165°	<i>330.1</i>	331.4	338.6	345.9	351.0
167.5°	<i>336.5</i>	335.4	341.6	344.9	346.9
170°	<i>338.6</i>	338.0	340.5	341.3	343.8
172.5°	<i>343.3</i>	341.1	342.1	340.2	342.2
175°	<i>345.8</i>	343.9	342.5	340.5	337.9
177.5°	<i>346.8</i>	343.7	342.1	340.0	340.5
180°	<i>343.2</i>	343.2	343.2	343.2	343.2

(END OF REPORT)