

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: P561870

Luminaire Tested: **SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561870
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

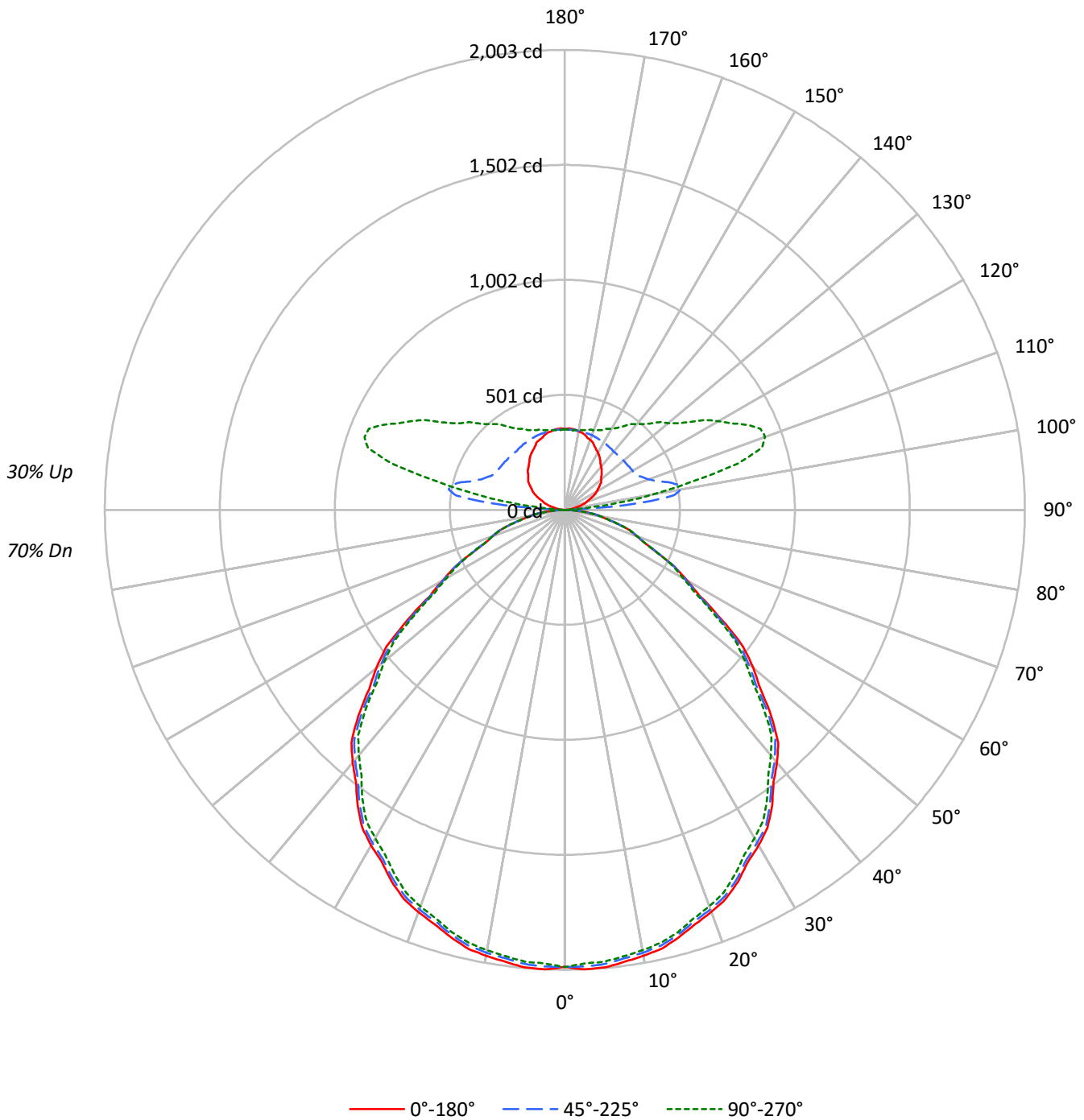
Lumens per Lamp: N/A
Luminaire Lumens: 7159.5 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 71.6
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	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°	18368	18368	18368
5°	18533	18390	18294
10°	18474	18345	18249
15°	18393	18278	18180
20°	18300	18183	18048
25°	18171	18049	17839
30°	17976	17848	17592
35°	17710	17556	17305
40°	17306	17120	16811
45°	16601	16310	15974
50°	15358	14989	14694
55°	13404	13102	12825
60°	11295	11201	10979
65°	9769	9809	9732
70°	8975	9021	9021
75°	8620	8620	8680
80°	8108	8198	8108
85°	6531	7262	7262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	2.6
10°-20°	538.6	7.5
20°-30°	812.4	11.3
30°-40°	968.0	13.5
40°-50°	954.4	13.3
50°-60°	729.4	10.2
60°-70°	451.4	6.3
70°-80°	256.4	3.6
80°-90°	78.0	1.1
90°-100°	160.1	2.2
100°-110°	455.6	6.4
110°-120°	436.5	6.1
120°-130°	345.5	4.8
130°-140°	277.3	3.9
140°-150°	217.1	3.0
150°-160°	158.8	2.2
160°-170°	98.4	1.4
170°-180°	33.4	0.5
0°-30°	1539.3	21.5
0°-40°	2507.3	35.0
0°-60°	4191.0	58.5
0°-90°	4976.7	69.5
90°-120°	1052.2	14.7
90°-150°	1892.1	26.4
90°-180°	2183.0	30.5
0°-180°	7159.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	2001	1979	1986	1979	1975	190
15°	1926	1906	1914	1907	1903	543
25°	1785	1763	1773	1754	1752	821
35°	1572	1554	1559	1538	1536	981
45°	1272	1256	1250	1228	1224	975
55°	833	820	814	801	797	747
65°	448	444	449	446	446	453
75°	242	242	242	244	244	255
85°	62	65	69	69	69	72
90°	0	0	0	0	0	3
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1990.8	1990.8	1990.8	1990.8	1990.8
2.5°	2003.1	1985.7	1990.8	1986.4	1977.1
5°	2001.1	1979.3	1985.6	1978.7	1975.3
7.5°	1985.6	1964.2	1970.5	1963.6	1961.6
10°	1971.9	1951.8	1958.2	1951.3	1947.9
12.5°	1956.8	1935.4	1943.1	1934.8	1931.4
15°	1925.6	1905.5	1913.6	1906.7	1903.3
17.5°	1891.3	1869.9	1877.9	1870.0	1865.6
20°	1863.9	1843.8	1851.9	1839.8	1838.2
22.5°	1833.7	1813.6	1821.7	1805.6	1805.2
25°	1785.0	1763.2	1773.0	1754.1	1752.4
27.5°	1727.1	1706.9	1715.0	1695.8	1693.8
30°	1687.3	1667.2	1675.3	1654.6	1651.3
32.5°	1642.0	1623.2	1630.0	1609.4	1607.4
35°	1572.4	1553.9	1558.7	1538.1	1536.4
37.5°	1493.2	1476.4	1479.1	1456.4	1454.8
40°	1436.9	1420.2	1421.5	1397.4	1395.8
42.5°	1375.2	1358.4	1357.0	1333.0	1331.3
45°	1272.3	1255.5	1250.0	1227.7	1224.3
47.5°	1155.0	1138.3	1127.9	1109.7	1107.4
50°	1070.0	1053.2	1044.3	1028.7	1023.7
52.5°	978.1	961.3	953.7	939.5	934.5
55°	833.3	819.9	814.5	800.7	797.3
57.5°	695.8	686.8	685.2	671.8	670.4
60°	612.1	607.1	607.0	595.0	595.0
62.5°	540.8	537.1	539.8	531.9	530.5
65°	447.5	444.2	449.3	445.8	445.8
67.5°	373.8	373.8	376.9	375.5	375.5
70°	332.7	332.7	334.4	334.4	334.4
72.5°	295.6	294.3	298.7	298.7	297.3
75°	241.8	241.8	241.8	243.5	243.5
77.5°	188.3	188.6	190.0	189.6	188.3
80°	152.6	154.3	154.3	152.6	152.6
82.5°	116.9	118.6	118.7	118.3	116.9
85°	61.7	65.1	68.6	68.6	68.6
87.5°	17.8	23.2	27.4	27.4	26.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)