

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: P562077

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562077
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-PR1-125U-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 1250 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: 10223.3 lumens
Efficiency: N/A
Efficacy: 105.2 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: General Diffuse

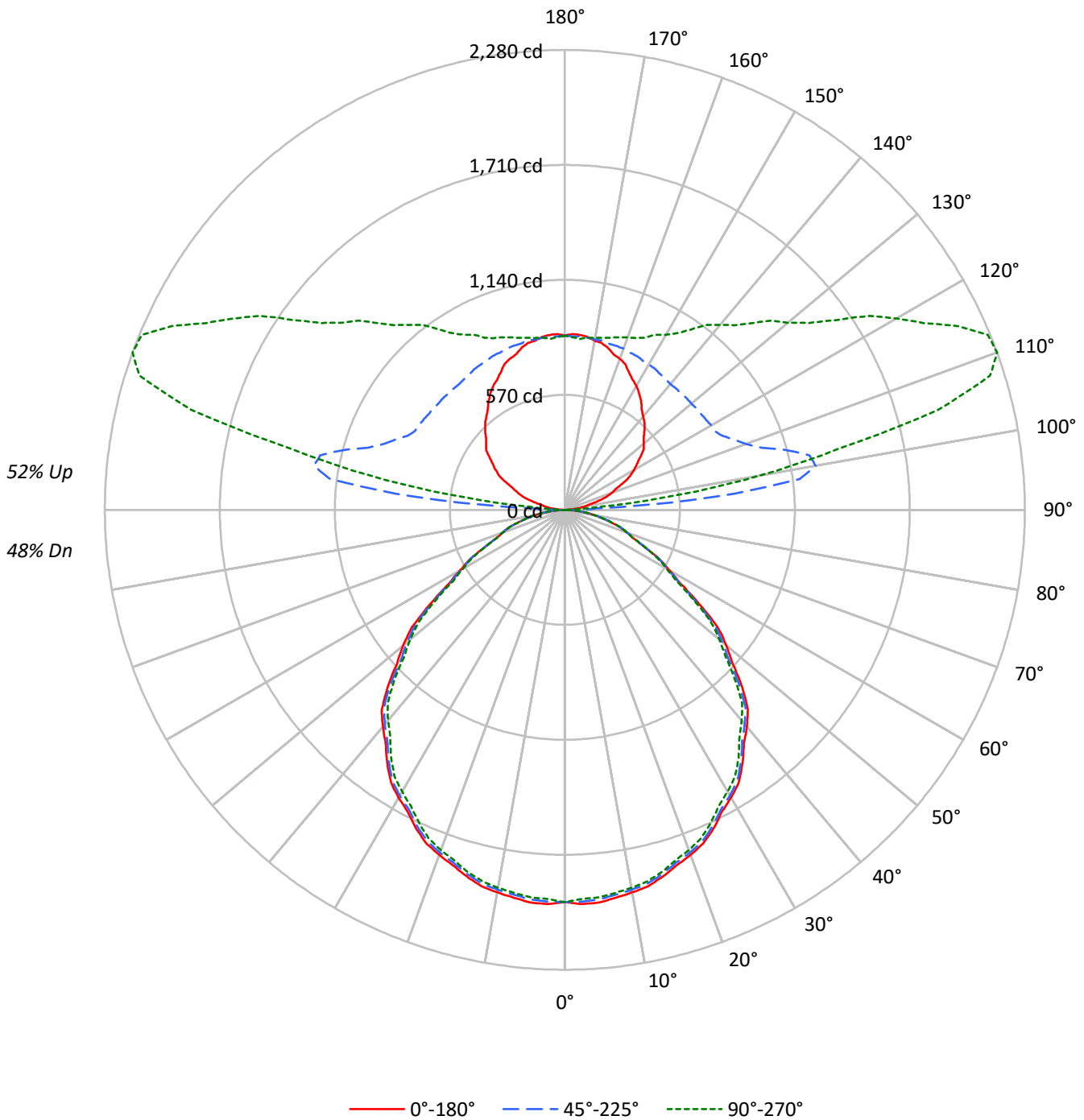
Input Watts (W): 97.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	43	41	39				34	
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34				29	
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	30	31	28	26				22	
6	63	51	43	38	58	48	40	35	41	35	31	34	30	27	28	25	23				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20				17	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	23	20	18				16	
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

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	1.8
10°-20°	526.0	5.1
20°-30°	793.4	7.8
30°-40°	945.3	9.2
40°-50°	932.0	9.1
50°-60°	712.3	7.0
60°-70°	440.8	4.3
70°-80°	250.4	2.4
80°-90°	76.2	0.7
90°-100°	393.4	3.8
100°-110°	1119.5	11.0
110°-120°	1072.5	10.5
120°-130°	848.9	8.3
130°-140°	681.4	6.7
140°-150°	533.4	5.2
150°-160°	390.3	3.8
160°-170°	241.8	2.4
170°-180°	82.0	0.8
0°-30°	1503.2	14.7
0°-40°	2448.5	24.0
0°-60°	4092.8	40.0
0°-90°	4860.1	47.5
90°-120°	2585.4	25.3
90°-150°	4649.1	45.5
90°-180°	5363.0	52.5
0°-180°	10223.3	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	4
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	



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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°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)