

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: P561817

Luminaire Tested: **SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561817
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-PR1-025U-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 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

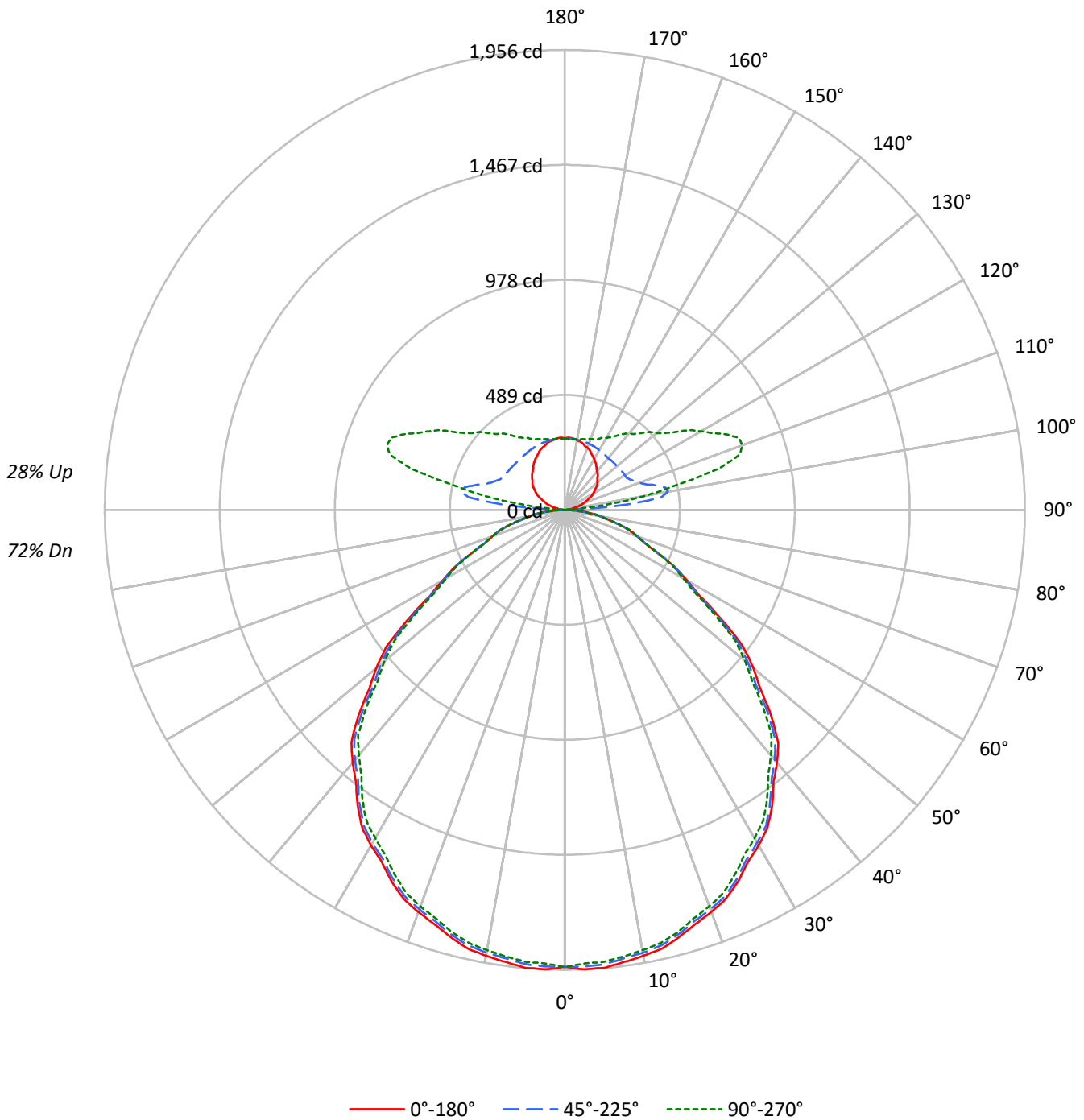
Lumens per Lamp: N/A
Luminaire Lumens: 6751.5 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.7
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	107	107	107	107	96	96	96	86	86	86	76	76	76	76	76	76	72	
1	103	99	95	91	98	94	90	87	85	82	80	76	74	72	68	67	65	65	65	65	61	
2	94	87	81	75	89	83	77	72	75	70	67	67	64	61	60	58	56	56	56	56	52	
3	86	77	69	63	82	73	66	61	66	61	56	60	56	52	54	51	48	48	48	48	45	
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	48	45	42	42	42	42	39	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	44	40	36	36	36	36	34	
6	67	55	47	41	64	53	45	40	48	42	37	44	39	35	40	36	32	32	32	32	30	
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29	29	29	29	26	
8	58	45	38	32	55	44	36	31	40	34	29	37	31	28	34	29	26	26	26	26	24	
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	21	21	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	2.7
10°-20°	526.0	7.8
20°-30°	793.4	11.8
30°-40°	945.3	14.0
40°-50°	932.0	13.8
50°-60°	712.3	10.5
60°-70°	440.8	6.5
70°-80°	250.4	3.7
80°-90°	76.2	1.1
90°-100°	138.8	2.1
100°-110°	394.8	5.8
110°-120°	378.2	5.6
120°-130°	299.4	4.4
130°-140°	240.3	3.6
140°-150°	188.1	2.8
150°-160°	137.6	2.0
160°-170°	85.3	1.3
170°-180°	28.9	0.4
0°-30°	1503.2	22.3
0°-40°	2448.5	36.3
0°-60°	4092.8	60.6
0°-90°	4860.1	72.0
90°-120°	911.8	13.5
90°-150°	1639.5	24.3
90°-180°	1891.0	28.0
0°-180°	6751.5	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°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

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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°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)