

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: P562183

Luminaire Tested: **SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562183
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

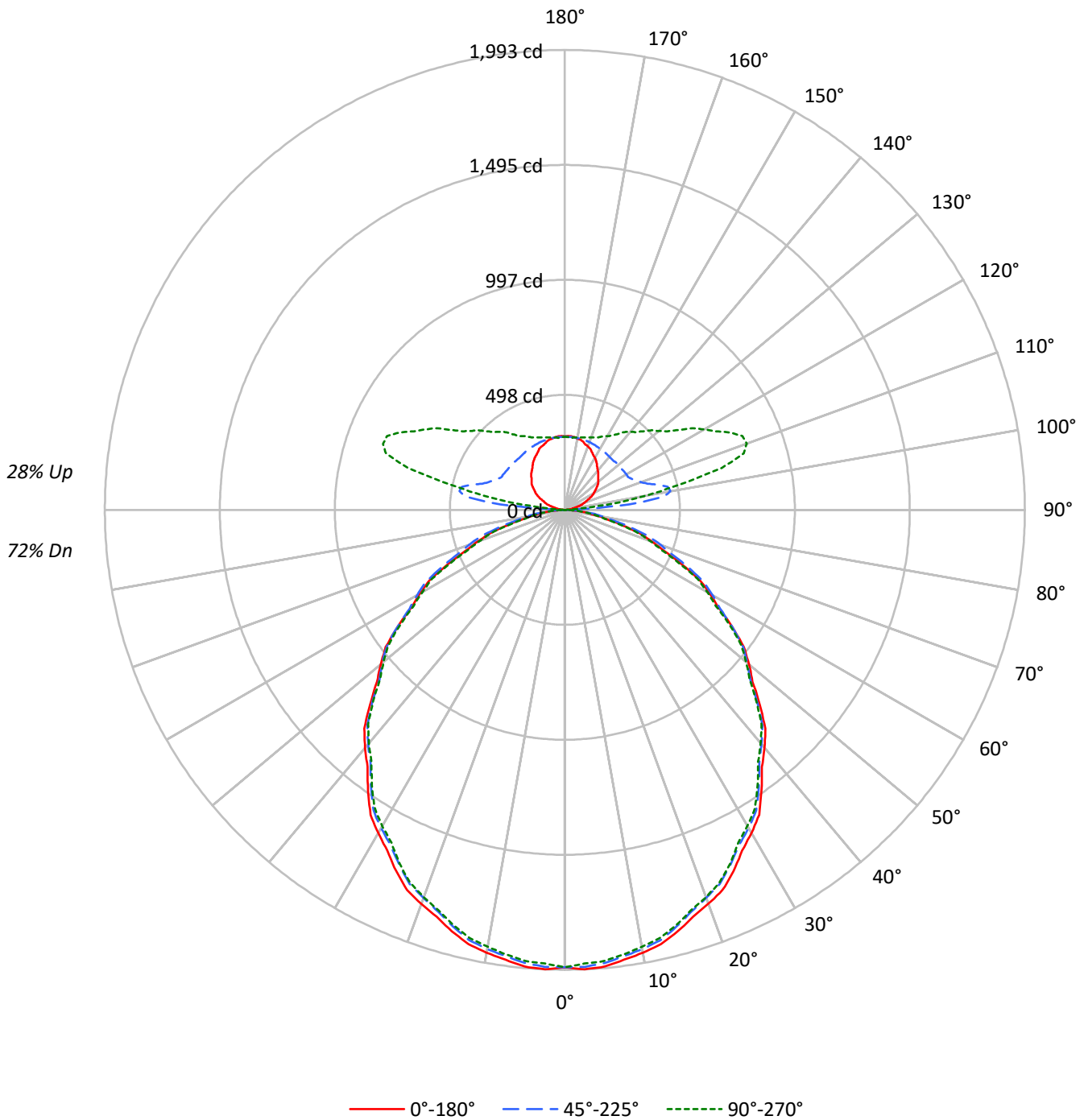
Lumens per Lamp: N/A
Luminaire Lumens: 7014.4 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.8
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	95	95	95	85	85	85	76	76	76	72
1	103	98	94	91	97	93	90	87	84	81	79	76	74	72	68	66	65	61
2	94	86	80	75	89	82	76	71	74	69	66	67	63	60	60	57	55	51
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47	43
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	47	44	40	37
5	72	60	52	45	68	57	50	44	52	46	41	47	42	38	43	39	35	32
6	67	54	46	40	63	52	44	38	47	41	36	43	38	33	39	34	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	28	36	30	27	33	28	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22	20
10	50	38	30	25	47	36	29	24	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18284	18284	18284
5°	18402	18257	18177
10°	18256	18108	18010
15°	18062	17863	17796
20°	17847	17572	17537
25°	17597	17277	17225
30°	17226	16965	16853
35°	16736	16500	16401
40°	16214	15962	15898
45°	15583	15378	15310
50°	14938	14811	14711
55°	14240	14240	14015
60°	13371	13629	13145
65°	12236	12845	11931
70°	10788	11823	10504
75°	9211	10580	8962
80°	7141	8905	7237
85°	4626	6838	6097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	2.7
10°-20°	526.9	7.5
20°-30°	781.5	11.1
30°-40°	914.5	13.0
40°-50°	910.4	13.0
50°-60°	786.2	11.2
60°-70°	565.9	8.1
70°-80°	296.7	4.2
80°-90°	73.6	1.0
90°-100°	144.7	2.1
100°-110°	411.6	5.9
110°-120°	394.4	5.6
120°-130°	312.1	4.5
130°-140°	250.5	3.6
140°-150°	196.1	2.8
150°-160°	143.5	2.0
160°-170°	88.9	1.3
170°-180°	30.2	0.4
0°-30°	1495.0	21.3
0°-40°	2409.5	34.4
0°-60°	4106.0	58.5
0°-90°	5042.2	71.9
90°-120°	950.7	13.6
90°-150°	1709.6	24.4
90°-180°	1972.0	28.1
0°-180°	7014.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1987	1965	1971	1966	1963	188
15°	1891	1867	1870	1866	1863	533
25°	1729	1700	1697	1687	1692	795
35°	1486	1465	1465	1451	1456	929
45°	1194	1184	1179	1175	1173	921
55°	885	884	885	873	871	790
65°	560	578	588	565	546	555
75°	258	282	297	277	251	277
85°	44	57	65	61	58	58
90°	0	0	0	0	0	2
95°	16	62	280	97	60	18
105°	64	97	420	741	704	68
115°	119	144	318	674	791	117
125°	168	186	304	504	602	150
135°	205	222	300	426	481	158
145°	242	254	302	368	401	151
155°	276	283	310	333	346	128
165°	305	307	313	320	325	86
175°	320	318	317	315	313	30
180°	318	318	318	318	318	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1981.8	1981.8	1981.8	1981.8	1981.8
2.5°	1993.0	1976.6	1981.8	1977.4	1967.8
5°	1987.0	1964.8	1971.3	1966.0	1962.6
7.5°	1966.8	1946.3	1951.1	1945.4	1943.4
10°	1948.6	1928.1	1932.9	1925.8	1922.4
12.5°	1927.7	1905.8	1910.6	1903.5	1901.5
15°	1891.0	1867.1	1870.1	1866.5	1863.1
17.5°	1848.4	1824.2	1824.7	1819.0	1818.4
20°	1817.7	1792.1	1789.7	1782.8	1786.2
22.5°	1784.1	1757.2	1754.8	1745.1	1749.9
25°	1728.6	1699.6	1697.2	1686.8	1692.0
27.5°	1664.4	1635.7	1635.7	1621.2	1626.6
30°	1616.9	1589.6	1592.4	1575.1	1581.9
32.5°	1566.6	1542.0	1543.5	1526.2	1533.1
35°	1485.9	1465.4	1465.0	1451.1	1456.2
37.5°	1403.5	1385.4	1382.5	1374.5	1375.9
40°	1346.2	1330.9	1325.3	1320.0	1320.0
42.5°	1286.2	1272.2	1266.6	1262.7	1261.4
45°	1194.3	1184.1	1178.6	1175.1	1173.4
47.5°	1103.5	1094.0	1089.2	1086.7	1085.0
50°	1040.7	1033.8	1031.9	1026.7	1024.9
52.5°	977.8	973.7	971.9	965.2	963.5
55°	885.3	883.6	885.3	873.0	871.3
57.5°	788.9	791.6	797.3	780.8	776.7
60°	724.6	731.5	738.6	719.2	712.4
62.5°	659.0	669.9	679.9	657.7	648.1
65°	560.5	577.6	588.4	565.3	546.5
67.5°	465.5	486.7	499.7	474.8	453.6
70°	399.9	423.8	438.3	413.3	389.4
72.5°	342.6	369.2	381.0	357.4	333.5
75°	258.4	282.3	296.8	277.0	251.4
77.5°	183.3	205.9	217.9	200.7	179.5
80°	134.4	158.3	167.6	153.3	136.2
82.5°	95.3	115.1	121.5	112.9	101.3
85°	43.7	57.3	64.6	61.0	57.6
87.5°	11.2	20.7	26.5	26.6	27.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	25.6	59.4	17.3	13.0
95°	15.7	62.3	280.1	96.9	59.8
97.5°	28.9	73.0	431.3	308.6	211.5
100°	38.0	79.3	464.2	470.2	362.2
102.5°	48.2	86.2	456.9	601.8	507.5
105°	64.0	97.0	419.5	741.0	704.4
107.5°	80.0	109.7	375.8	780.2	812.8
110°	91.1	118.9	350.7	765.2	838.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>101.8</i>	128.1	333.8	729.7	834.1
115°	<i>118.9</i>	143.7	318.1	673.9	791.3
117.5°	<i>134.0</i>	157.3	308.8	612.8	737.2
120°	<i>146.1</i>	165.5	307.8	577.9	697.2
122.5°	<i>155.7</i>	175.2	305.4	547.3	658.0
125°	<i>167.8</i>	186.1	303.6	503.8	602.4
127.5°	<i>181.0</i>	198.1	302.6	477.8	559.1
130°	<i>187.7</i>	204.8	301.2	459.7	530.6
132.5°	<i>195.0</i>	211.6	301.2	445.6	510.8
135°	<i>205.2</i>	222.3	300.0	425.6	481.1
137.5°	<i>214.9</i>	231.5	299.9	408.6	456.6
140°	<i>222.1</i>	239.2	299.4	394.6	440.6
142.5°	<i>230.3</i>	244.6	300.8	383.4	424.7
145°	<i>242.0</i>	254.4	302.4	368.3	401.4
147.5°	<i>252.1</i>	264.1	305.1	353.2	381.7
150°	<i>260.8</i>	269.0	306.0	348.1	368.2
152.5°	<i>267.5</i>	276.2	307.0	341.3	360.0
155°	<i>276.4</i>	282.9	309.6	332.9	346.5
157.5°	<i>287.6</i>	291.4	310.2	329.1	338.7
160°	<i>293.3</i>	296.3	312.7	326.1	334.4
162.5°	<i>296.7</i>	300.2	313.1	323.7	330.0
165°	<i>305.4</i>	306.6	313.3	320.0	324.7
167.5°	<i>311.3</i>	310.3	316.0	319.1	321.0
170°	<i>313.3</i>	312.7	315.1	315.7	318.1
172.5°	<i>317.6</i>	315.6	316.5	314.8	316.6
175°	<i>319.9</i>	318.1	316.9	315.0	312.7
177.5°	<i>320.9</i>	318.0	316.5	314.6	315.1
180°	<i>317.5</i>	317.5	317.5	317.5	317.5

(END OF REPORT)