

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: P523716

Luminaire Tested: **SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523716
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7628.1 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

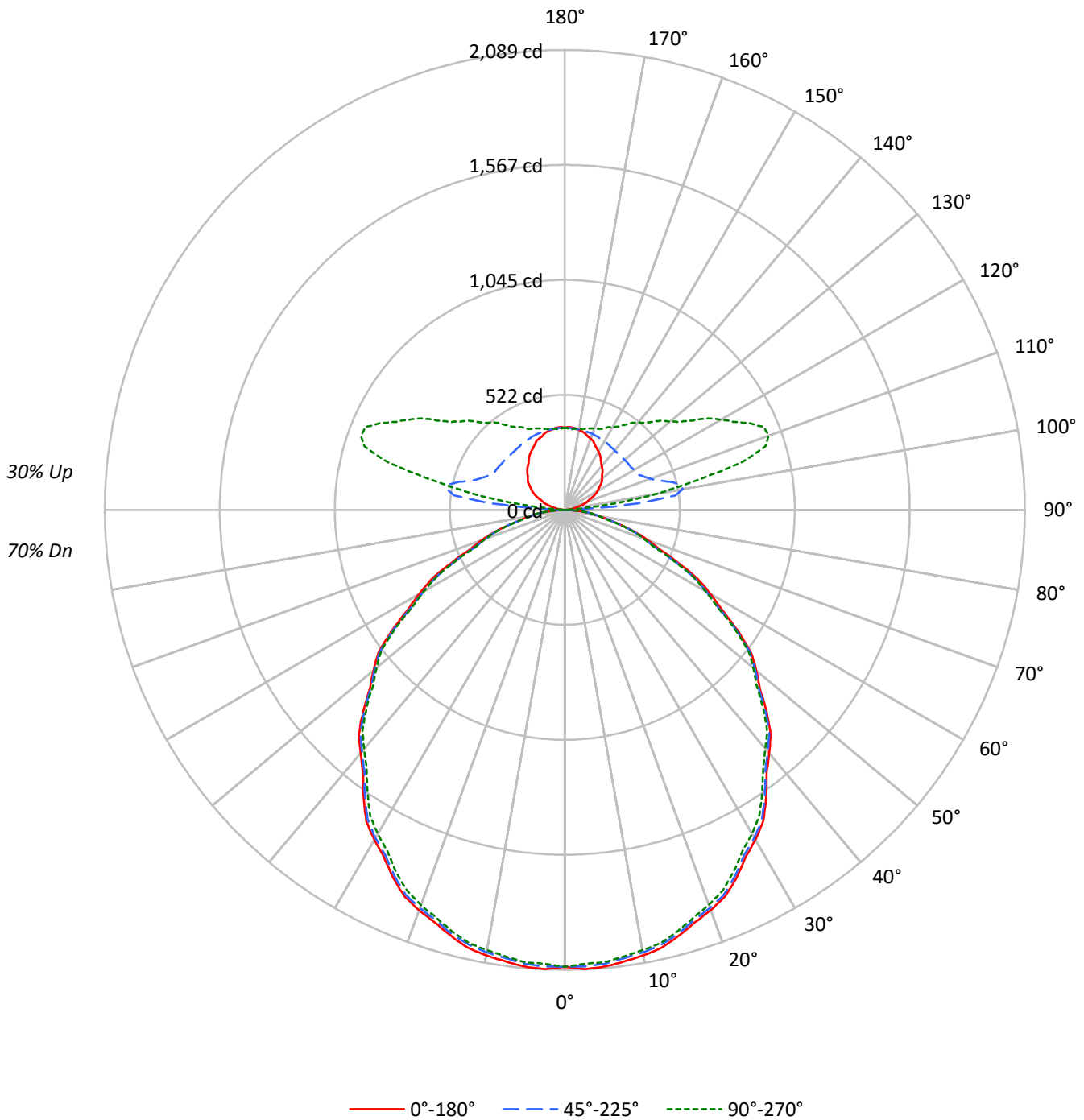
Input Watts (W): 71.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	102	98	94	91	97	93	90	86	83	81	78	74	72	71	66	65	63	59		
2	94	86	80	75	88	82	76	71	73	69	65	66	62	59	58	56	54	50		
3	86	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43		
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	47	43	40	37		
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35	32		
6	66	54	46	40	63	52	44	38	47	40	36	42	37	33	38	34	31	28		
7	62	49	41	35	58	47	39	34	43	36	32	39	33	29	35	31	27	25		
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22		
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20		
10	50	38	30	25	47	36	29	24	33	27	23	30	25	22	27	23	20	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19149	19149	19149
5°	19290	19171	19104
10°	19257	19120	19035
15°	19129	19025	18921
20°	19002	18895	18752
25°	18777	18647	18461
30°	18429	18333	18099
35°	17947	17824	17599
40°	17373	17264	17066
45°	16898	16779	16614
50°	16293	16188	16031
55°	15448	15244	15127
60°	14064	13660	13594
65°	12389	11874	11835
70°	10696	10256	10256
75°	9208	9079	8947
80°	8119	8214	8023
85°	6352	6934	6934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	2.6
10°-20°	560.4	7.3
20°-30°	839.4	11.0
30°-40°	984.5	12.9
40°-50°	987.6	12.9
50°-60°	842.5	11.0
60°-70°	549.5	7.2
70°-80°	275.7	3.6
80°-90°	76.3	1.0
90°-100°	169.9	2.2
100°-110°	483.4	6.3
110°-120°	463.2	6.1
120°-130°	366.6	4.8
130°-140°	294.2	3.9
140°-150°	230.4	3.0
150°-160°	168.5	2.2
160°-170°	104.4	1.4
170°-180°	35.4	0.5
0°-30°	1596.0	20.9
0°-40°	2580.5	33.8
0°-60°	4410.6	57.8
0°-90°	5312.1	69.6
90°-120°	1116.5	14.6
90°-150°	2007.7	26.3
90°-180°	2316.0	30.4
0°-180°	7628.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2083	2063	2070	2063	2063	198
15°	2003	1983	1992	1984	1981	565
25°	1844	1823	1832	1815	1814	848
35°	1593	1577	1582	1564	1562	995
45°	1295	1286	1286	1273	1273	997
55°	960	957	948	942	940	854
65°	568	557	544	540	542	566
75°	258	258	255	253	251	280
85°	60	65	66	66	66	71
90°	0	0	0	0	0	3
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	2088.6	2071.5	2075.5	2072.4	2063.8
5°	2082.8	2063.2	2070.0	2062.7	2062.7
7.5°	2068.6	2047.2	2054.0	2046.7	2046.4
10°	2055.5	2034.1	2040.9	2033.6	2031.8
12.5°	2036.5	2015.2	2023.5	2014.7	2014.4
15°	2002.7	1983.2	1991.8	1984.4	1980.9
17.5°	1964.5	1943.2	1953.6	1943.4	1942.0
20°	1935.4	1914.1	1924.5	1909.9	1909.9
22.5°	1900.5	1879.1	1891.0	1872.1	1872.1
25°	1844.5	1823.1	1831.7	1815.3	1813.5
27.5°	1777.9	1756.9	1765.9	1747.3	1747.0
30°	1729.9	1710.3	1720.8	1700.7	1698.9
32.5°	1677.5	1659.3	1666.9	1646.9	1645.1
35°	1593.4	1577.4	1582.5	1564.3	1562.5
37.5°	1505.0	1488.7	1494.5	1478.8	1478.1
40°	1442.5	1431.8	1433.4	1420.6	1417.0
42.5°	1384.3	1372.2	1373.7	1361.0	1360.2
45°	1295.1	1286.2	1286.0	1273.3	1273.3
47.5°	1200.5	1193.8	1191.8	1181.2	1180.9
50°	1135.1	1129.7	1127.8	1118.6	1116.9
52.5°	1066.7	1064.2	1057.9	1050.3	1049.9
55°	960.4	956.9	947.7	942.2	940.4
57.5°	845.1	838.0	827.6	819.7	821.1
60°	762.2	755.0	740.3	736.7	736.7
62.5°	682.1	673.6	658.8	653.8	656.7
65°	567.5	556.9	543.9	540.3	542.1
67.5°	463.5	453.9	439.8	439.8	438.4
70°	396.5	391.2	380.2	380.2	380.2
72.5°	336.9	334.4	326.3	326.3	324.9
75°	258.3	258.3	254.7	252.8	251.0
77.5°	193.5	194.3	192.4	190.6	187.4
80°	152.8	156.4	154.6	152.8	151.0
82.5°	115.0	118.5	118.2	115.0	114.6
85°	60.0	65.4	65.5	65.5	65.5
87.5°	16.0	21.7	23.3	23.3	24.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)