

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: P561484

Luminaire Tested: **SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561484
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 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: 5538.3 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

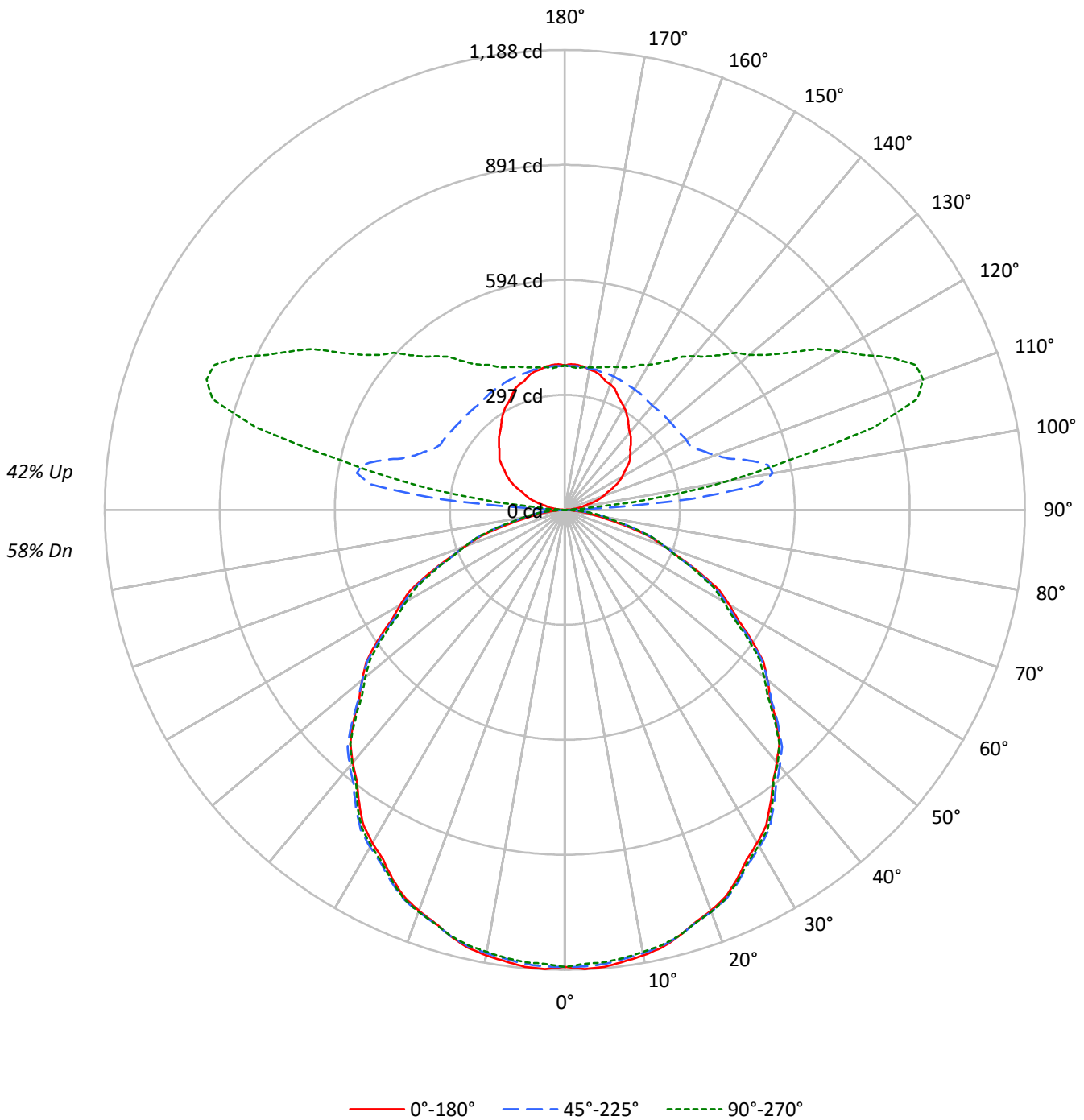
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	100	95	91	88	93	89	86	83	77	75	72	66	65	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	47	45	41
3	83	73	66	60	77	69	62	57	60	55	50	52	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	42	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10892	10892	10892
5°	10975	10904	10864
10°	10948	10897	10867
15°	10891	10891	10880
20°	10819	10851	10851
25°	10716	10795	10761
30°	10586	10714	10668
35°	10429	10588	10515
40°	10257	10401	10296
45°	10070	10142	9984
50°	9806	9806	9650
55°	9495	9373	9231
60°	9036	8855	8715
65°	8353	8187	8115
70°	7313	7372	7343
75°	5885	6509	6548
80°	4181	5520	5574
85°	2551	4626	4626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	2.0
10°-20°	320.6	5.8
20°-30°	485.6	8.8
30°-40°	582.1	10.5
40°-50°	593.6	10.7
50°-60°	518.2	9.4
60°-70°	371.0	6.7
70°-80°	191.1	3.5
80°-90°	48.3	0.9
90°-100°	169.9	3.1
100°-110°	483.4	8.7
110°-120°	463.2	8.4
120°-130°	366.6	6.6
130°-140°	294.2	5.3
140°-150°	230.4	4.2
150°-160°	168.5	3.0
160°-170°	104.4	1.9
170°-180°	35.4	0.6
0°-30°	918.0	16.6
0°-40°	1500.1	27.1
0°-60°	2611.9	47.2
0°-90°	3222.2	58.2
90°-120°	1116.5	20.2
90°-150°	2007.7	36.3
90°-180°	2316.0	41.8
0°-180°	5538.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1185	1173	1177	1174	1173	112
15°	1140	1131	1140	1140	1139	321
25°	1053	1045	1060	1057	1057	484
35°	926	924	940	934	934	579
45°	772	770	777	767	765	594
55°	590	583	583	574	574	526
65°	383	374	375	372	372	378
75°	165	173	183	184	184	178
85°	24	37	44	45	44	33
90°	0	0	0	0	0	2
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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CATALOG NUMBER: SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1187.6	1177.4	1180.6	1177.9	1173.6
5°	1185.0	1173.3	1177.4	1174.1	1173.0
7.5°	1176.5	1164.7	1170.1	1167.9	1166.9
10°	1168.6	1156.9	1163.1	1160.9	1159.9
12.5°	1158.1	1147.2	1154.4	1152.2	1152.0
15°	1140.2	1130.6	1140.2	1140.2	1139.1
17.5°	1117.7	1108.9	1119.2	1119.8	1119.2
20°	1101.9	1092.3	1105.2	1104.1	1105.2
22.5°	1082.7	1074.8	1088.6	1085.8	1086.8
25°	1052.7	1045.3	1060.4	1057.1	1057.1
27.5°	1017.3	1012.0	1028.5	1025.0	1025.0
30°	993.7	988.4	1005.7	1001.4	1001.4
32.5°	967.5	963.8	980.4	975.1	975.1
35°	925.9	923.8	940.1	933.6	933.6
37.5°	883.1	881.1	896.0	888.0	885.5
40°	851.6	850.5	863.6	854.9	854.9
42.5°	820.1	819.0	830.4	819.9	819.9
45°	771.8	769.6	777.3	767.4	765.2
47.5°	719.1	717.0	721.7	711.0	709.9
50°	683.2	681.1	683.2	673.4	672.3
52.5°	646.5	642.7	643.0	633.2	633.0
55°	590.3	582.8	582.7	573.9	573.9
57.5°	530.8	521.0	521.9	514.4	513.4
60°	489.7	479.1	479.9	473.3	472.3
62.5°	449.5	437.1	439.7	432.2	432.0
65°	382.6	374.1	375.0	371.7	371.7
67.5°	318.3	310.4	316.1	313.5	313.3
70°	271.1	265.8	273.3	273.3	272.2
72.5°	227.4	227.2	236.6	236.6	237.2
75°	165.1	172.6	182.6	183.7	183.7
77.5°	110.2	123.4	134.5	134.9	134.7
80°	78.7	93.7	103.9	106.0	104.9
82.5°	53.3	69.2	77.6	79.8	78.7
85°	24.1	36.9	43.7	44.8	43.7
87.5°	7.0	14.7	17.5	17.5	15.7
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)