

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: P561478

Luminaire Tested: **SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561478
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

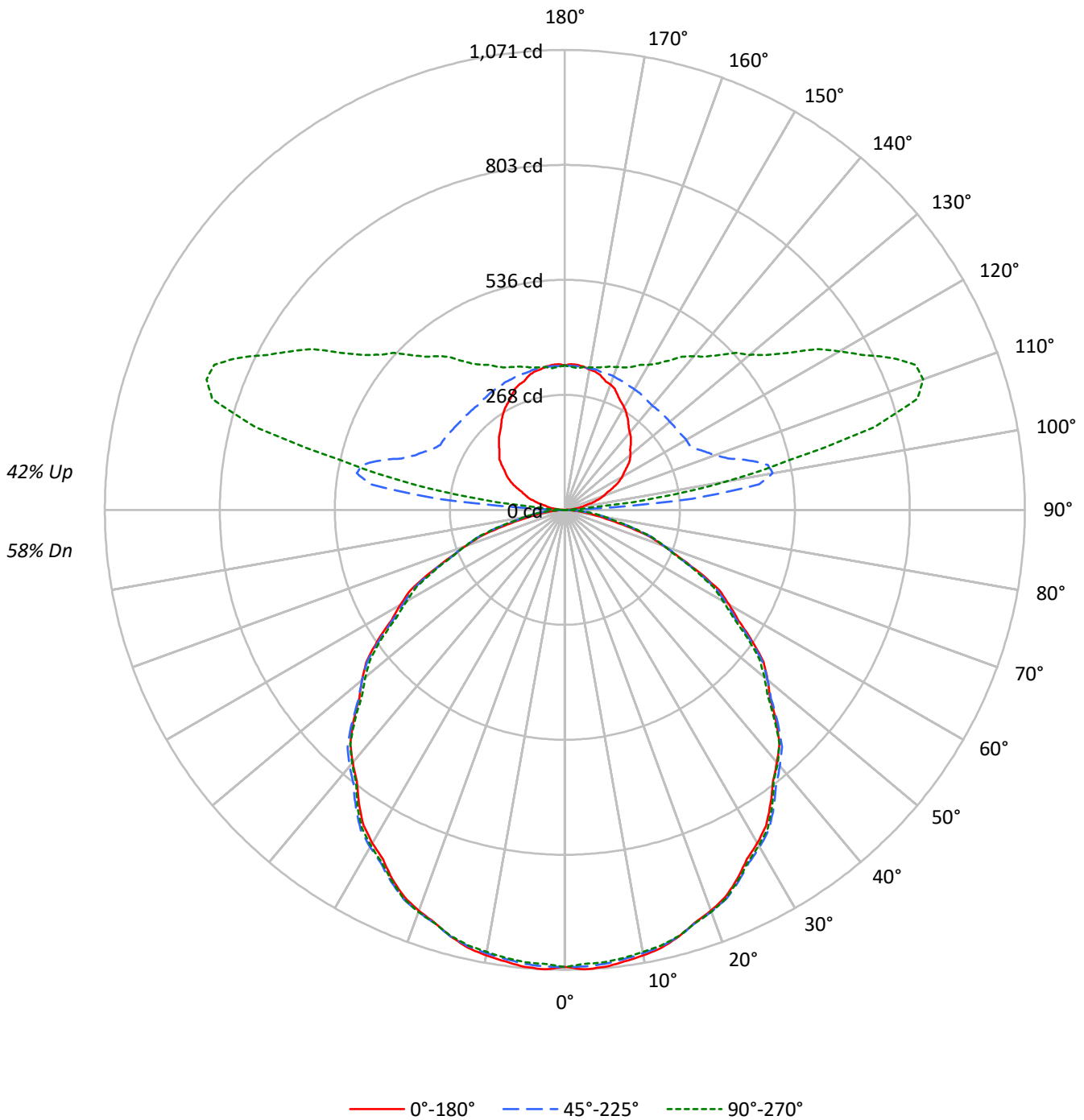
Lumens per Lamp: N/A
Luminaire Lumens: 4993.6 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	9821	9821	9821
5°	9896	9832	9795
10°	9872	9826	9798
15°	9820	9820	9811
20°	9755	9784	9784
25°	9663	9733	9704
30°	9546	9661	9619
35°	9404	9548	9481
40°	9249	9379	9283
45°	9080	9144	9003
50°	8843	8843	8701
55°	8562	8451	8324
60°	8149	7984	7857
65°	7532	7381	7316
70°	6596	6647	6620
75°	5304	5868	5903
80°	3772	4973	5026
85°	2297	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	2.0
10°-20°	289.1	5.8
20°-30°	437.8	8.8
30°-40°	524.9	10.5
40°-50°	535.2	10.7
50°-60°	467.2	9.4
60°-70°	334.5	6.7
70°-80°	172.3	3.4
80°-90°	43.6	0.9
90°-100°	153.2	3.1
100°-110°	435.9	8.7
110°-120°	417.6	8.4
120°-130°	330.5	6.6
130°-140°	265.3	5.3
140°-150°	207.7	4.2
150°-160°	152.0	3.0
160°-170°	94.1	1.9
170°-180°	31.9	0.6
0°-30°	827.7	16.6
0°-40°	1352.6	27.1
0°-60°	2355.1	47.2
0°-90°	2905.4	58.2
90°-120°	1006.7	20.2
90°-150°	1810.2	36.3
90°-180°	2088.0	41.8
0°-180°	4993.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1068	1058	1062	1059	1058	101
15°	1028	1019	1028	1028	1027	290
25°	949	942	956	953	953	437
35°	835	833	848	842	842	522
45°	696	694	701	692	690	536
55°	532	526	525	518	518	475
65°	345	337	338	335	335	341
75°	149	156	165	166	166	161
85°	22	33	39	40	39	29
90°	0	0	0	0	0	2
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	



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CATALOG NUMBER: SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1070.9	1061.6	1064.5	1062.1	1058.2
5°	1068.5	1057.9	1061.6	1058.6	1057.6
7.5°	1060.8	1050.2	1055.1	1053.1	1052.1
10°	1053.7	1043.1	1048.8	1046.8	1045.8
12.5°	1044.2	1034.4	1040.9	1038.9	1038.7
15°	1028.1	1019.4	1028.1	1028.1	1027.1
17.5°	1007.8	999.9	1009.2	1009.7	1009.2
20°	993.6	984.9	996.5	995.6	996.5
22.5°	976.2	969.1	981.6	979.0	980.0
25°	949.2	942.5	956.1	953.2	953.2
27.5°	917.3	912.5	927.3	924.2	924.2
30°	896.0	891.2	906.8	902.9	902.9
32.5°	872.3	869.1	884.0	879.2	879.2
35°	834.9	833.0	847.7	841.8	841.8
37.5°	796.2	794.5	807.9	800.7	798.4
40°	767.9	766.9	778.7	770.8	770.8
42.5°	739.5	738.5	748.7	739.3	739.3
45°	695.9	694.0	700.8	691.9	690.0
47.5°	648.4	646.5	650.8	641.1	640.1
50°	616.1	614.1	616.1	607.2	606.2
52.5°	582.9	579.5	579.8	570.9	570.7
55°	532.3	525.5	525.4	517.5	517.5
57.5°	478.7	469.8	470.6	463.8	462.9
60°	441.6	432.0	432.7	426.8	425.8
62.5°	405.3	394.1	396.4	389.7	389.5
65°	345.0	337.3	338.1	335.1	335.1
67.5°	287.0	279.9	285.1	282.7	282.5
70°	244.5	239.6	246.4	246.4	245.4
72.5°	205.0	204.8	213.3	213.3	213.9
75°	148.8	155.6	164.6	165.6	165.6
77.5°	99.4	111.3	121.2	121.6	121.4
80°	71.0	84.5	93.6	95.6	94.6
82.5°	48.1	62.4	70.0	71.9	71.0
85°	21.7	33.3	39.4	40.4	39.4
87.5°	6.3	13.2	15.8	15.7	14.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)