

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: P561570

Luminaire Tested: **SQ4-PC3-0U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561570
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.2 lumens
Efficiency: N/A
Efficacy: 95.7 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: Direct

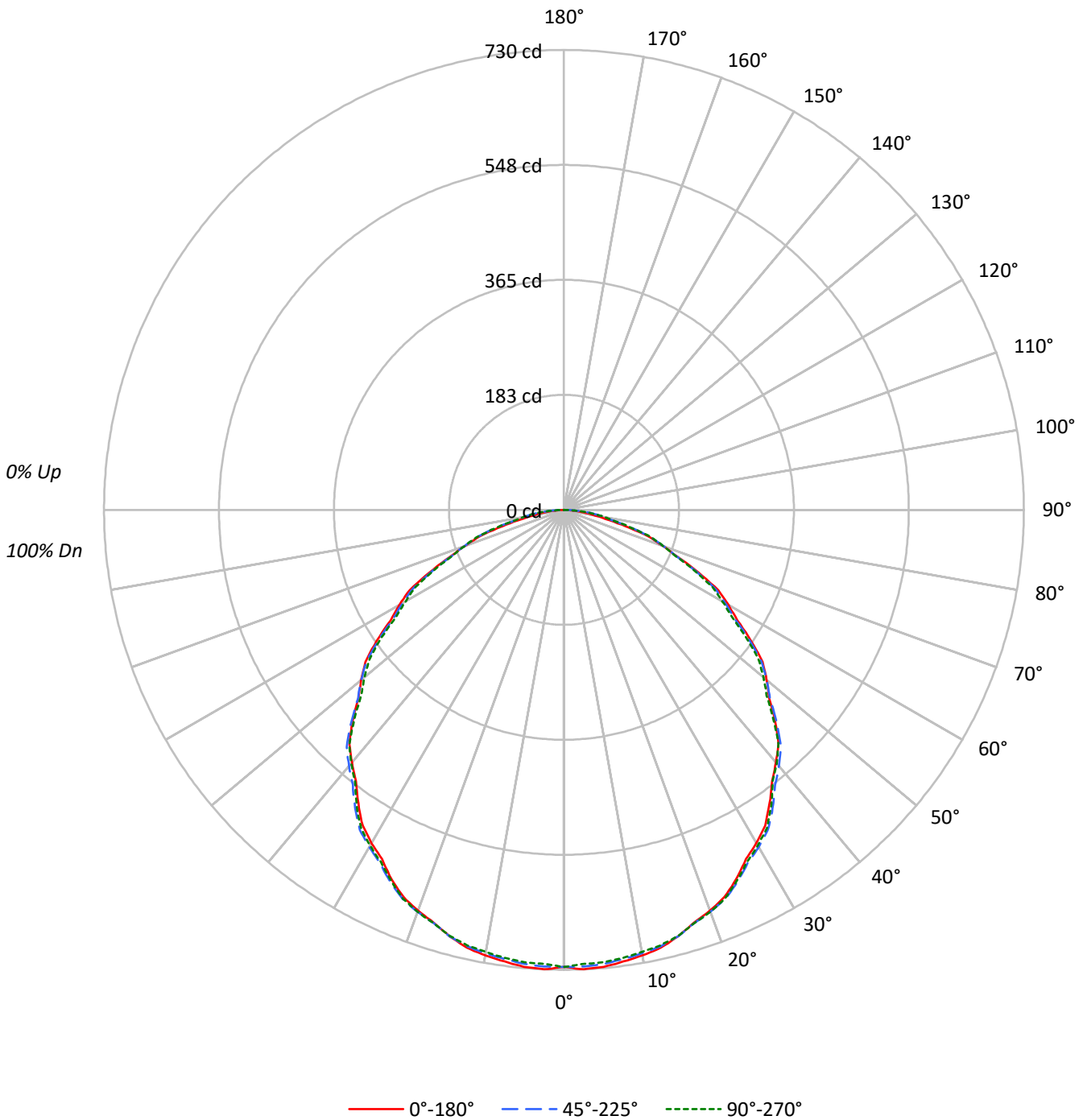
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6695	6695	6695
5°	6744	6701	6676
10°	6728	6697	6678
15°	6693	6693	6686
20°	6649	6669	6669
25°	6586	6634	6613
30°	6506	6585	6556
35°	6409	6508	6462
40°	6303	6392	6328
45°	6189	6233	6136
50°	6027	6027	5931
55°	5836	5760	5673
60°	5554	5442	5355
65°	5132	5030	4986
70°	4494	4532	4513
75°	3615	4000	4025
80°	2572	3390	3427
85°	1567	2848	2848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.5
10°-20°	197.1	10.0
20°-30°	298.4	15.1
30°-40°	357.8	18.1
40°-50°	364.8	18.4
50°-60°	318.4	16.1
60°-70°	228.0	11.5
70°-80°	117.4	5.9
80°-90°	29.7	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	564.1	28.5
0°-40°	921.9	46.6
0°-60°	1605.1	81.1
0°-90°	1980.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	721	724	722	721	69
15°	701	695	701	701	700	198
25°	647	642	652	650	650	298
35°	569	568	578	574	574	356
45°	474	473	478	472	470	365
55°	363	358	358	353	353	323
65°	235	230	230	228	228	233
75°	101	106	112	113	113	110
85°	15	23	27	28	27	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.6	725.6	725.6	725.6	725.6
2.5°	729.9	723.5	725.6	723.9	721.3
5°	728.2	721.0	723.5	721.5	720.8
7.5°	723.0	715.8	719.1	717.7	717.1
10°	718.2	710.9	714.8	713.4	712.8
12.5°	711.7	705.0	709.4	708.1	708.0
15°	700.7	694.8	700.7	700.7	700.0
17.5°	686.9	681.5	687.8	688.2	687.8
20°	677.2	671.3	679.2	678.5	679.2
22.5°	665.4	660.5	669.0	667.3	667.9
25°	647.0	642.4	651.7	649.6	649.6
27.5°	625.2	621.9	632.0	629.9	629.9
30°	610.7	607.4	618.1	615.4	615.4
32.5°	594.5	592.3	602.5	599.3	599.3
35°	569.0	567.7	577.8	573.7	573.7
37.5°	542.7	541.5	550.6	545.7	544.2
40°	523.3	522.7	530.7	525.4	525.4
42.5°	504.0	503.3	510.3	503.9	503.9
45°	474.3	473.0	477.7	471.6	470.3
47.5°	441.9	440.6	443.5	436.9	436.3
50°	419.9	418.6	419.9	413.8	413.2
52.5°	397.3	394.9	395.2	389.1	389.0
55°	362.8	358.2	358.1	352.7	352.7
57.5°	326.2	320.2	320.7	316.1	315.5
60°	301.0	294.4	294.9	290.9	290.2
62.5°	276.2	268.6	270.2	265.6	265.5
65°	235.1	229.9	230.4	228.4	228.4
67.5°	195.6	190.8	194.3	192.7	192.5
70°	166.6	163.3	168.0	167.9	167.3
72.5°	139.7	139.6	145.4	145.4	145.8
75°	101.4	106.0	112.2	112.9	112.9
77.5°	67.7	75.9	82.6	82.9	82.8
80°	48.4	57.6	63.8	65.2	64.5
82.5°	32.8	42.5	47.7	49.0	48.4
85°	14.8	22.7	26.9	27.5	26.9
87.5°	4.3	9.0	10.7	10.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)