

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: P561583

Luminaire Tested: **SQ4-PC3-0U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561583
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-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 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: 2965.6 lumens
Efficiency: N/A
Efficacy: 93.0 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

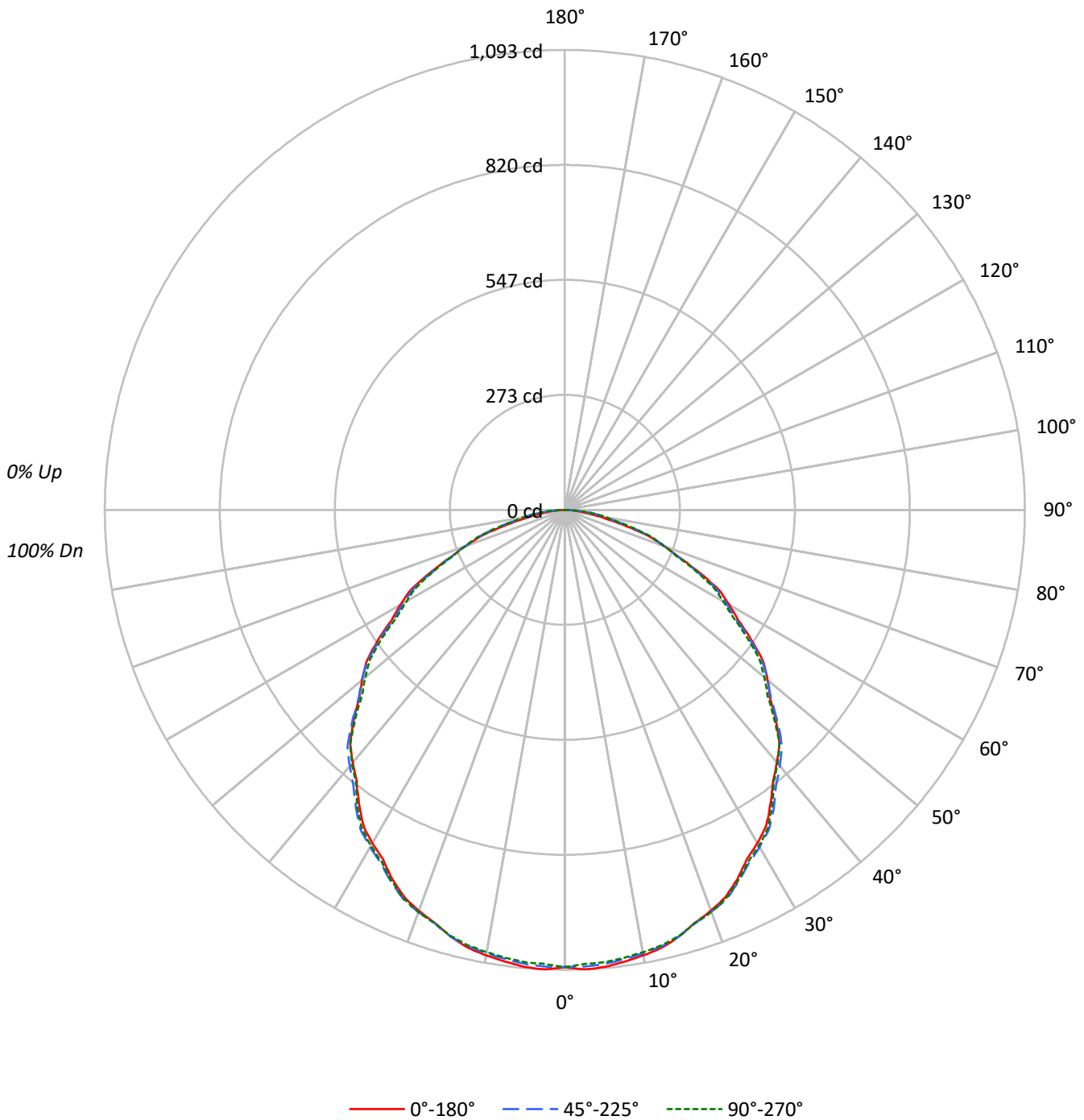
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10025	10025	10025
5°	10101	10036	9999
10°	10076	10029	10001
15°	10024	10024	10014
20°	9958	9987	9987
25°	9863	9935	9904
30°	9744	9861	9818
35°	9598	9746	9677
40°	9440	9573	9476
45°	9268	9334	9190
50°	9025	9025	8882
55°	8739	8627	8496
60°	8316	8150	8019
65°	7687	7534	7468
70°	6730	6784	6757
75°	5415	5989	6024
80°	3847	5079	5133
85°	2339	4256	4256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.5
10°-20°	295.1	10.0
20°-30°	446.9	15.1
30°-40°	535.8	18.1
40°-50°	546.3	18.4
50°-60°	476.9	16.1
60°-70°	341.4	11.5
70°-80°	175.8	5.9
80°-90°	44.5	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°	844.9	28.5
0°-40°	1380.6	46.6
0°-60°	2403.8	81.1
0°-90°	2965.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1091	1080	1084	1081	1080	104
15°	1049	1040	1049	1049	1048	296
25°	969	962	976	973	973	446
35°	852	850	865	859	859	533
45°	710	708	715	706	704	547
55°	543	536	536	528	528	484
65°	352	344	345	342	342	348
75°	152	159	168	169	169	164
85°	22	34	40	41	40	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1093.0	1083.6	1086.6	1084.1	1080.2
5°	1090.6	1079.8	1083.6	1080.6	1079.6
7.5°	1082.8	1072.0	1077.0	1074.9	1073.9
10°	1075.5	1064.7	1070.5	1068.5	1067.5
12.5°	1065.9	1055.8	1062.5	1060.4	1060.2
15°	1049.4	1040.5	1049.4	1049.4	1048.4
17.5°	1028.7	1020.6	1030.1	1030.7	1030.1
20°	1014.2	1005.3	1017.2	1016.2	1017.2
22.5°	996.5	989.2	1001.9	999.3	1000.3
25°	968.9	962.0	975.9	972.9	972.9
27.5°	936.3	931.4	946.6	943.3	943.3
30°	914.6	909.6	925.6	921.6	921.6
32.5°	890.4	887.1	902.3	897.5	897.5
35°	852.2	850.2	865.3	859.2	859.2
37.5°	812.7	811.0	824.6	817.3	815.0
40°	783.8	782.8	794.8	786.8	786.8
42.5°	754.8	753.8	764.2	754.6	754.6
45°	710.3	708.4	715.4	706.3	704.3
47.5°	661.8	659.9	664.2	654.4	653.4
50°	628.8	626.9	628.8	619.7	618.8
52.5°	595.0	591.5	591.8	582.7	582.5
55°	543.3	536.4	536.3	528.2	528.2
57.5°	488.6	479.5	480.3	473.5	472.5
60°	450.7	440.9	441.7	435.6	434.6
62.5°	413.7	402.3	404.7	397.8	397.6
65°	352.1	344.3	345.1	342.1	342.1
67.5°	293.0	285.7	291.0	288.6	288.4
70°	249.5	244.6	251.5	251.5	250.5
72.5°	209.3	209.1	217.7	217.7	218.3
75°	151.9	158.8	168.0	169.0	169.0
77.5°	101.4	113.6	123.8	124.2	124.0
80°	72.4	86.2	95.6	97.6	96.6
82.5°	49.1	63.7	71.4	73.4	72.4
85°	22.1	33.9	40.2	41.2	40.2
87.5°	6.4	13.5	16.1	16.1	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)