

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: P561572

Luminaire Tested: **SQ4-PC3-0U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561572
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

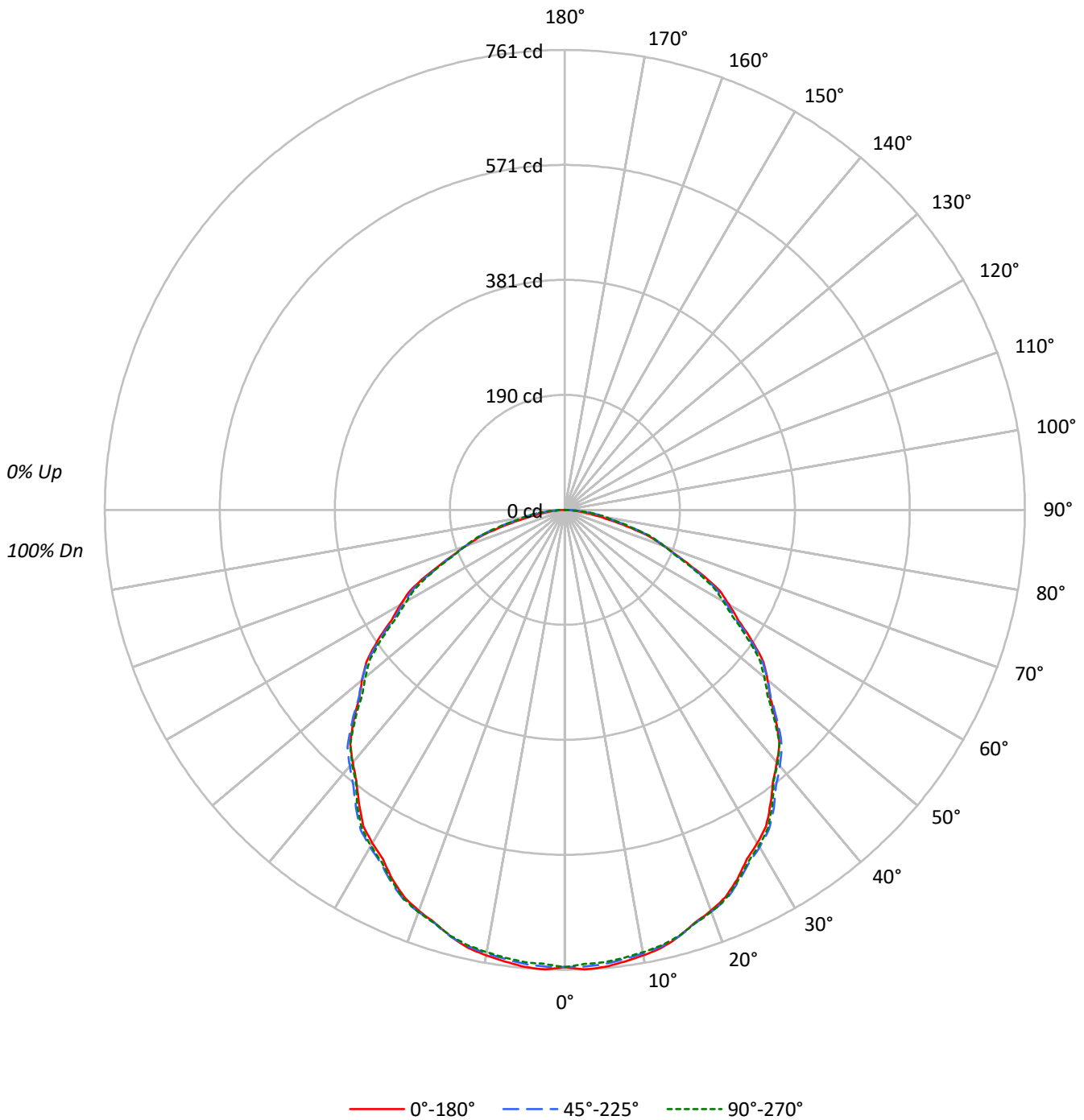
Lumens per Lamp: N/A
Luminaire Lumens: 2064.8 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	6981	6981	6981
5°	7033	6988	6962
10°	7015	6982	6963
15°	6978	6978	6972
20°	6933	6953	6953
25°	6867	6917	6896
30°	6784	6866	6836
35°	6682	6785	6738
40°	6572	6665	6598
45°	6453	6499	6399
50°	6284	6284	6183
55°	6085	6006	5916
60°	5790	5674	5584
65°	5353	5246	5200
70°	4686	4723	4705
75°	3771	4171	4196
80°	2678	3533	3570
85°	1630	2964	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.5
10°-20°	205.5	10.0
20°-30°	311.2	15.1
30°-40°	373.0	18.1
40°-50°	380.4	18.4
50°-60°	332.0	16.1
60°-70°	237.7	11.5
70°-80°	122.4	5.9
80°-90°	30.9	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°	588.2	28.5
0°-40°	961.3	46.6
0°-60°	1673.7	81.1
0°-90°	2064.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	759	752	754	752	752	72
15°	731	724	731	731	730	206
25°	675	670	680	677	677	310
35°	593	592	602	598	598	371
45°	495	493	498	492	490	381
55°	378	374	373	368	368	337
65°	245	240	240	238	238	242
75°	106	111	117	118	118	114
85°	15	24	28	29	28	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.6	756.6	756.6	756.6	756.6
2.5°	761.0	754.5	756.6	754.8	752.1
5°	759.4	751.8	754.5	752.3	751.7
7.5°	753.9	746.4	749.8	748.4	747.7
10°	748.8	741.3	745.3	743.9	743.2
12.5°	742.1	735.1	739.7	738.3	738.2
15°	730.6	724.5	730.6	730.6	729.9
17.5°	716.2	710.6	717.2	717.6	717.2
20°	706.1	700.0	708.2	707.5	708.2
22.5°	693.8	688.7	697.6	695.8	696.5
25°	674.6	669.8	679.5	677.4	677.4
27.5°	651.9	648.5	659.0	656.8	656.8
30°	636.8	633.3	644.5	641.7	641.7
32.5°	620.0	617.6	628.2	624.9	624.9
35°	593.3	592.0	602.4	598.2	598.2
37.5°	565.9	564.6	574.1	569.1	567.4
40°	545.7	545.0	553.4	547.8	547.8
42.5°	525.5	524.8	532.1	525.4	525.4
45°	494.6	493.2	498.1	491.7	490.4
47.5°	460.8	459.4	462.5	455.6	454.9
50°	437.8	436.5	437.8	431.5	430.8
52.5°	414.3	411.8	412.0	405.7	405.6
55°	378.3	373.5	373.4	367.8	367.8
57.5°	340.2	333.9	334.4	329.6	329.0
60°	313.8	307.0	307.5	303.3	302.6
62.5°	288.1	280.1	281.7	277.0	276.8
65°	245.2	239.7	240.3	238.2	238.2
67.5°	204.0	198.9	202.6	200.9	200.8
70°	173.7	170.3	175.1	175.1	174.4
72.5°	145.7	145.6	151.6	151.6	152.0
75°	105.8	110.6	117.0	117.7	117.7
77.5°	70.6	79.1	86.2	86.4	86.3
80°	50.4	60.0	66.5	67.9	67.2
82.5°	34.2	44.3	49.7	51.1	50.4
85°	15.4	23.6	28.0	28.7	28.0
87.5°	4.5	9.4	11.2	11.2	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)