

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: P564146

Luminaire Tested: **SQ4-PR1-0U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564146
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

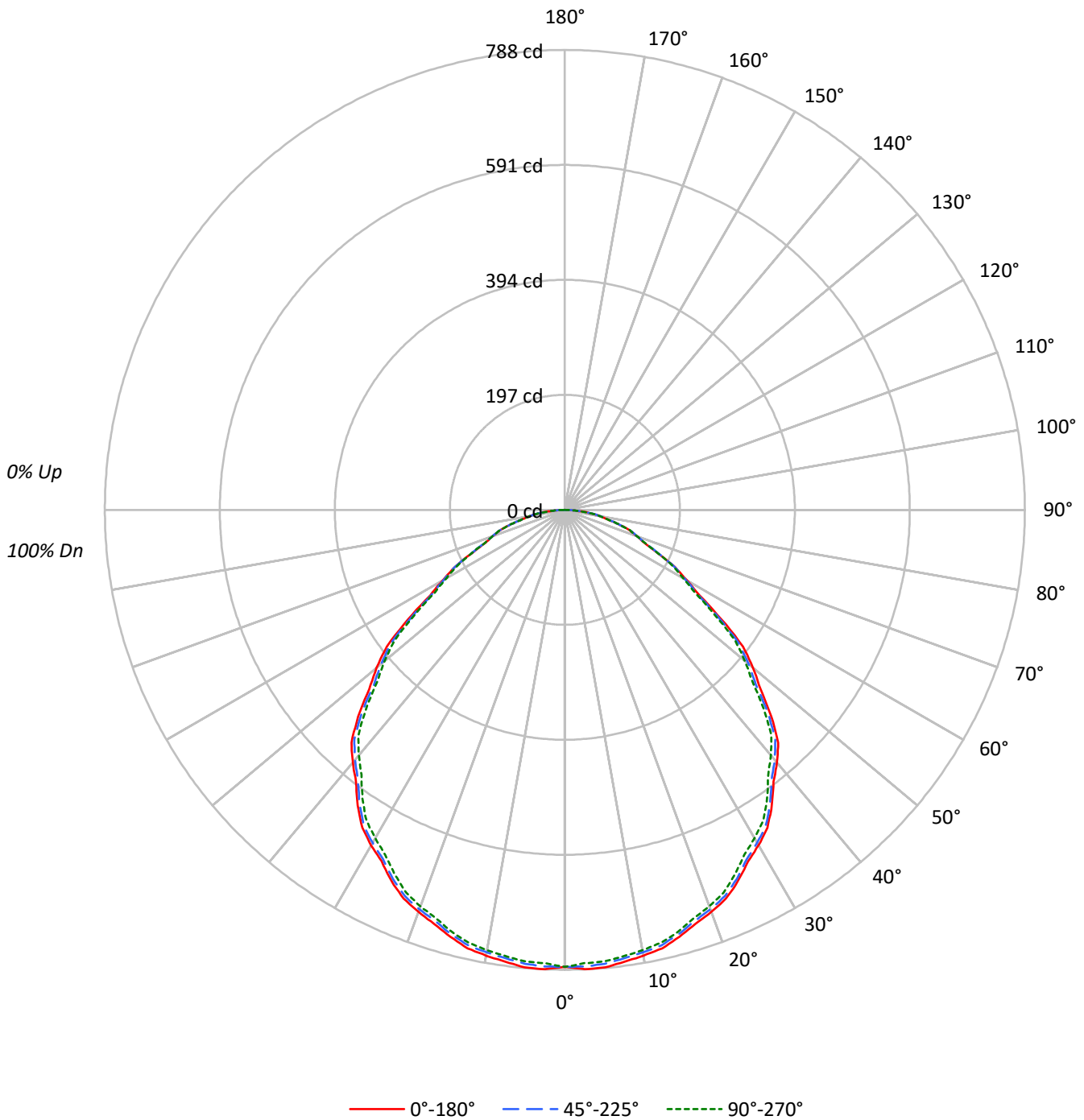
Lumens per Lamp: N/A
Luminaire Lumens: 1957.3 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7232	7195
10°	7265	7215	7177
15°	7233	7189	7150
20°	7198	7151	7098
25°	7146	7099	7016
30°	7070	7020	6918
35°	6965	6904	6805
40°	6806	6734	6611
45°	6529	6414	6283
50°	6040	5895	5779
55°	5273	5152	5044
60°	4443	4405	4318
65°	3842	3858	3827
70°	3528	3547	3547
75°	3390	3390	3415
80°	3188	3225	3188
85°	2572	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.8
10°-20°	211.8	10.8
20°-30°	319.5	16.3
30°-40°	380.7	19.5
40°-50°	375.3	19.2
50°-60°	286.9	14.7
60°-70°	177.5	9.1
70°-80°	100.8	5.2
80°-90°	30.7	1.6
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°	605.4	30.9
0°-40°	986.1	50.4
0°-60°	1648.3	84.2
0°-90°	1957.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	787	778	781	778	777	75
15°	757	749	753	750	749	214
25°	702	694	697	690	689	323
35°	618	611	613	605	604	386
45°	500	494	492	483	482	383
55°	328	322	320	315	314	294
65°	176	175	177	175	175	178
75°	95	95	95	96	96	100
85°	24	26	27	27	27	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.0	783.0	783.0	783.0	783.0
2.5°	787.8	781.0	783.0	781.3	777.6
5°	787.0	778.4	780.9	778.2	776.9
7.5°	780.9	772.5	775.0	772.3	771.5
10°	775.5	767.6	770.1	767.4	766.1
12.5°	769.6	761.2	764.2	760.9	759.6
15°	757.3	749.4	752.6	749.9	748.6
17.5°	743.8	735.4	738.6	735.4	733.7
20°	733.1	725.1	728.3	723.6	722.9
22.5°	721.2	713.3	716.5	710.1	710.0
25°	702.0	693.5	697.3	689.9	689.2
27.5°	679.2	671.3	674.5	666.9	666.2
30°	663.6	655.7	658.9	650.7	649.4
32.5°	645.8	638.4	641.1	633.0	632.2
35°	618.4	611.2	613.0	604.9	604.2
37.5°	587.3	580.7	581.7	572.8	572.1
40°	565.1	558.5	559.1	549.6	548.9
42.5°	540.9	534.3	533.7	524.3	523.6
45°	500.4	493.8	491.6	482.8	481.5
47.5°	454.3	447.7	443.6	436.4	435.5
50°	420.8	414.2	410.7	404.6	402.6
52.5°	384.7	378.1	375.1	369.5	367.5
55°	327.8	322.5	320.3	314.9	313.6
57.5°	273.7	270.1	269.5	264.2	263.7
60°	240.8	238.8	238.7	234.0	234.0
62.5°	212.7	211.2	212.3	209.2	208.7
65°	176.0	174.7	176.7	175.3	175.3
67.5°	147.0	147.0	148.2	147.7	147.7
70°	130.8	130.8	131.5	131.5	131.5
72.5°	116.3	115.7	117.5	117.5	116.9
75°	95.1	95.1	95.1	95.8	95.8
77.5°	74.0	74.2	74.7	74.6	74.0
80°	60.0	60.7	60.7	60.0	60.0
82.5°	46.0	46.7	46.7	46.5	46.0
85°	24.3	25.6	27.0	27.0	27.0
87.5°	7.0	9.1	10.8	10.8	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)