

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521508

Luminaire Tested: **SQ4-F-0U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521508
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-32)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-050D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

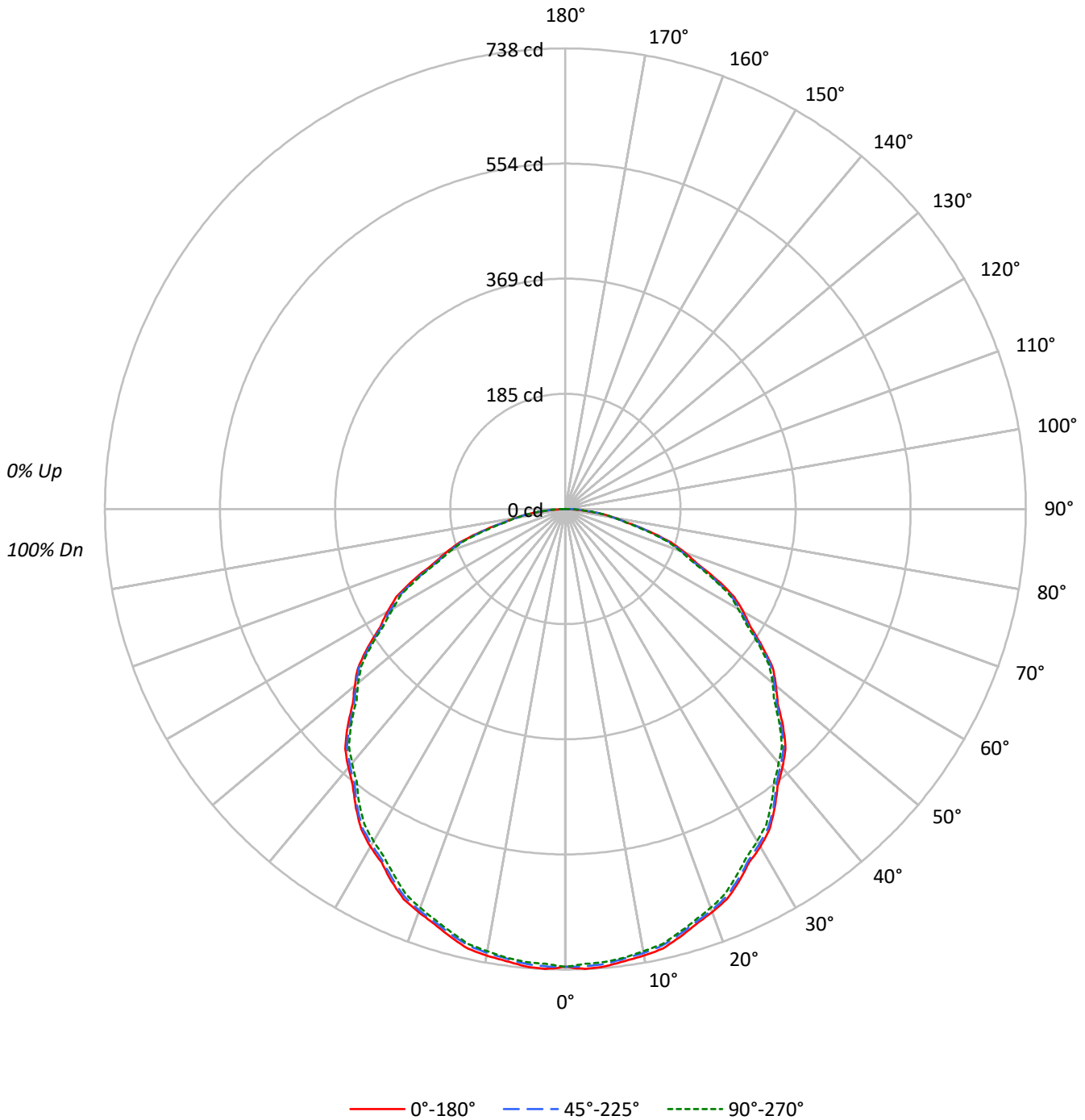
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2088.6 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
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	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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59				
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50				
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43				
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30				
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6769	6769	6769
5°	6814	6777	6748
10°	6806	6768	6740
15°	6783	6743	6715
20°	6751	6721	6680
25°	6708	6666	6603
30°	6660	6616	6550
35°	6590	6555	6486
40°	6517	6468	6405
45°	6444	6378	6324
50°	6324	6281	6222
55°	6214	6148	6082
60°	6069	5975	5899
65°	5840	5683	5615
70°	5473	5336	5279
75°	4969	4823	4748
80°	4139	4192	4086
85°	2932	3472	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	3.3
10°-20°	198.9	9.5
20°-30°	300.5	14.4
30°-40°	362.0	17.3
40°-50°	375.9	18.0
50°-60°	341.0	16.3
60°-70°	258.6	12.4
70°-80°	144.2	6.9
80°-90°	38.1	1.8
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°	568.8	27.2
0°-40°	930.8	44.6
0°-60°	1647.7	78.9
0°-90°	2088.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	736	730	732	730	729	70
15°	710	702	706	704	703	200
25°	659	652	655	649	649	303
35°	585	579	582	575	576	366
45°	494	489	489	484	485	380
55°	386	385	382	378	378	345
65°	268	264	260	257	257	264
75°	139	137	135	133	133	147
85°	28	31	33	33	33	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.7	733.7	733.7	733.7	733.7
2.5°	737.8	732.2	733.7	732.8	729.6
5°	735.7	729.7	731.7	729.6	728.6
7.5°	730.6	724.4	726.5	724.5	725.1
10°	726.5	719.5	722.4	720.4	719.4
12.5°	721.6	713.8	716.7	713.8	714.4
15°	710.1	702.1	706.0	704.0	703.0
17.5°	697.4	690.4	694.4	691.1	691.1
20°	687.6	680.6	684.5	680.4	680.4
22.5°	676.9	669.1	673.0	668.1	668.1
25°	658.9	651.9	654.8	648.6	648.6
27.5°	638.2	631.0	634.9	628.8	628.8
30°	625.1	617.1	621.0	614.8	614.8
32.5°	608.7	603.1	605.4	599.3	599.3
35°	585.1	579.1	582.0	574.9	575.9
37.5°	559.1	554.9	555.0	548.7	549.9
40°	541.1	536.0	537.0	529.8	531.8
42.5°	522.2	518.0	518.1	512.6	513.8
45°	493.9	488.9	488.8	483.7	484.7
47.5°	461.9	459.3	458.9	452.9	454.0
50°	440.6	439.6	437.6	432.5	433.5
52.5°	419.3	418.3	416.2	411.1	412.1
55°	386.3	385.3	382.2	378.1	378.1
57.5°	351.9	350.9	347.6	343.5	343.5
60°	328.9	327.9	323.8	319.7	319.7
62.5°	305.2	303.4	299.2	295.9	295.9
65°	267.5	264.4	260.3	257.2	257.2
67.5°	228.3	226.3	223.2	220.3	220.3
70°	202.9	200.9	197.8	195.7	195.7
72.5°	177.5	175.5	172.4	170.3	170.3
75°	139.4	137.4	135.3	133.2	133.2
77.5°	101.7	101.1	101.0	99.0	99.0
80°	77.9	78.9	78.9	76.9	76.9
82.5°	55.7	57.5	58.4	58.0	58.0
85°	27.7	30.7	32.8	32.8	32.8
87.5°	8.2	10.6	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)