

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: P562302

Luminaire Tested: **SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562302
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

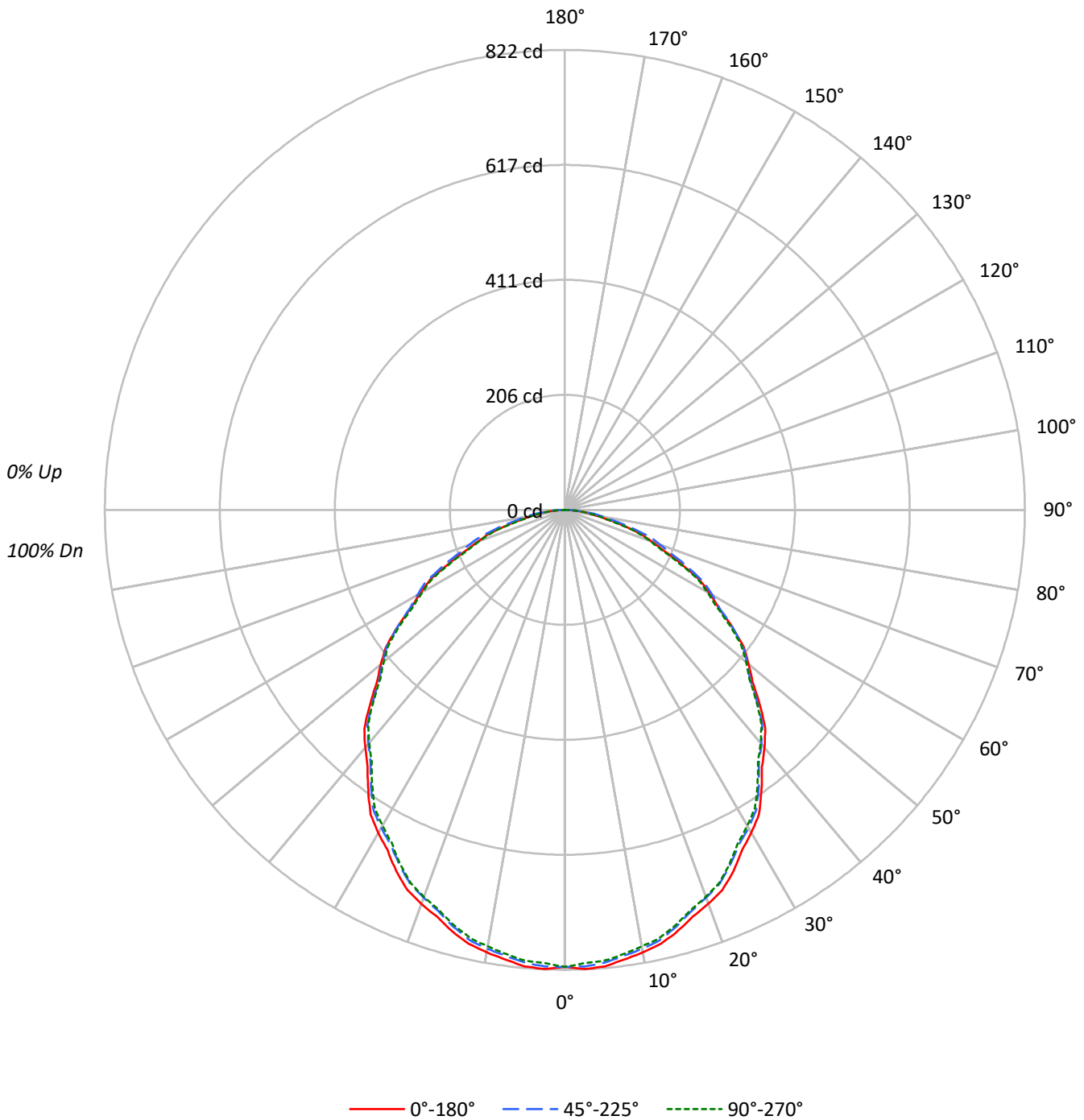
Lumens per Lamp: N/A
Luminaire Lumens: 2078.3 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71				
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60				
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52				
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45				
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40				
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35				
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31				
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28				
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7536	7536	7536
5°	7585	7525	7492
10°	7525	7464	7424
15°	7445	7362	7335
20°	7356	7243	7228
25°	7253	7121	7100
30°	7099	6993	6946
35°	6899	6801	6760
40°	6683	6578	6553
45°	6423	6339	6310
50°	6156	6105	6064
55°	5870	5870	5776
60°	5512	5617	5418
65°	5043	5294	4919
70°	4446	4872	4330
75°	3796	4360	3693
80°	2943	3671	2981
85°	1905	2816	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.7
10°-20°	217.2	10.4
20°-30°	322.1	15.5
30°-40°	376.9	18.1
40°-50°	375.2	18.1
50°-60°	324.0	15.6
60°-70°	233.2	11.2
70°-80°	122.3	5.9
80°-90°	30.3	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°	616.2	29.7
0°-40°	993.1	47.8
0°-60°	1692.4	81.4
0°-90°	2078.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2078.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	819	810	812	810	809	78
15°	779	770	771	769	768	220
25°	712	700	700	695	697	328
35°	612	604	604	598	600	383
45°	492	488	486	484	484	380
55°	365	364	365	360	359	326
65°	231	238	242	233	225	229
75°	106	116	122	114	104	114
85°	18	24	27	25	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.8	816.8	816.8	816.8	816.8
2.5°	821.5	814.7	816.8	815.0	811.1
5°	819.0	809.9	812.5	810.3	808.9
7.5°	810.7	802.2	804.2	801.9	801.0
10°	803.2	794.7	796.7	793.8	792.4
12.5°	794.5	785.5	787.5	784.6	783.7
15°	779.4	769.6	770.8	769.3	767.9
17.5°	761.9	751.9	752.1	749.8	749.5
20°	749.2	738.6	737.7	734.8	736.2
22.5°	735.4	724.3	723.3	719.3	721.3
25°	712.5	700.5	699.5	695.3	697.4
27.5°	686.0	674.2	674.2	668.2	670.5
30°	666.4	655.2	656.4	649.2	652.0
32.5°	645.7	635.6	636.2	629.1	631.9
35°	612.5	604.0	603.8	598.1	600.2
37.5°	578.5	571.0	569.9	566.6	567.1
40°	554.9	548.5	546.2	544.1	544.1
42.5°	530.1	524.4	522.1	520.5	519.9
45°	492.3	488.0	485.8	484.3	483.6
47.5°	454.8	450.9	448.9	447.9	447.2
50°	428.9	426.1	425.3	423.2	422.5
52.5°	403.0	401.3	400.6	397.8	397.1
55°	364.9	364.2	364.9	359.8	359.1
57.5°	325.2	326.3	328.6	321.8	320.1
60°	298.7	301.5	304.4	296.4	293.6
62.5°	271.6	276.1	280.2	271.1	267.1
65°	231.0	238.1	242.5	233.0	225.3
67.5°	191.9	200.6	206.0	195.7	187.0
70°	164.8	174.7	180.6	170.3	160.5
72.5°	141.2	152.2	157.0	147.3	137.5
75°	106.5	116.4	122.3	114.2	103.6
77.5°	75.6	84.9	89.8	82.7	74.0
80°	55.4	65.3	69.1	63.2	56.1
82.5°	39.3	47.5	50.1	46.5	41.7
85°	18.0	23.6	26.6	25.2	23.7
87.5°	4.6	8.5	10.9	11.0	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)