

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: P564824

Luminaire Tested: **SQ4-PW1-0U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564824
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

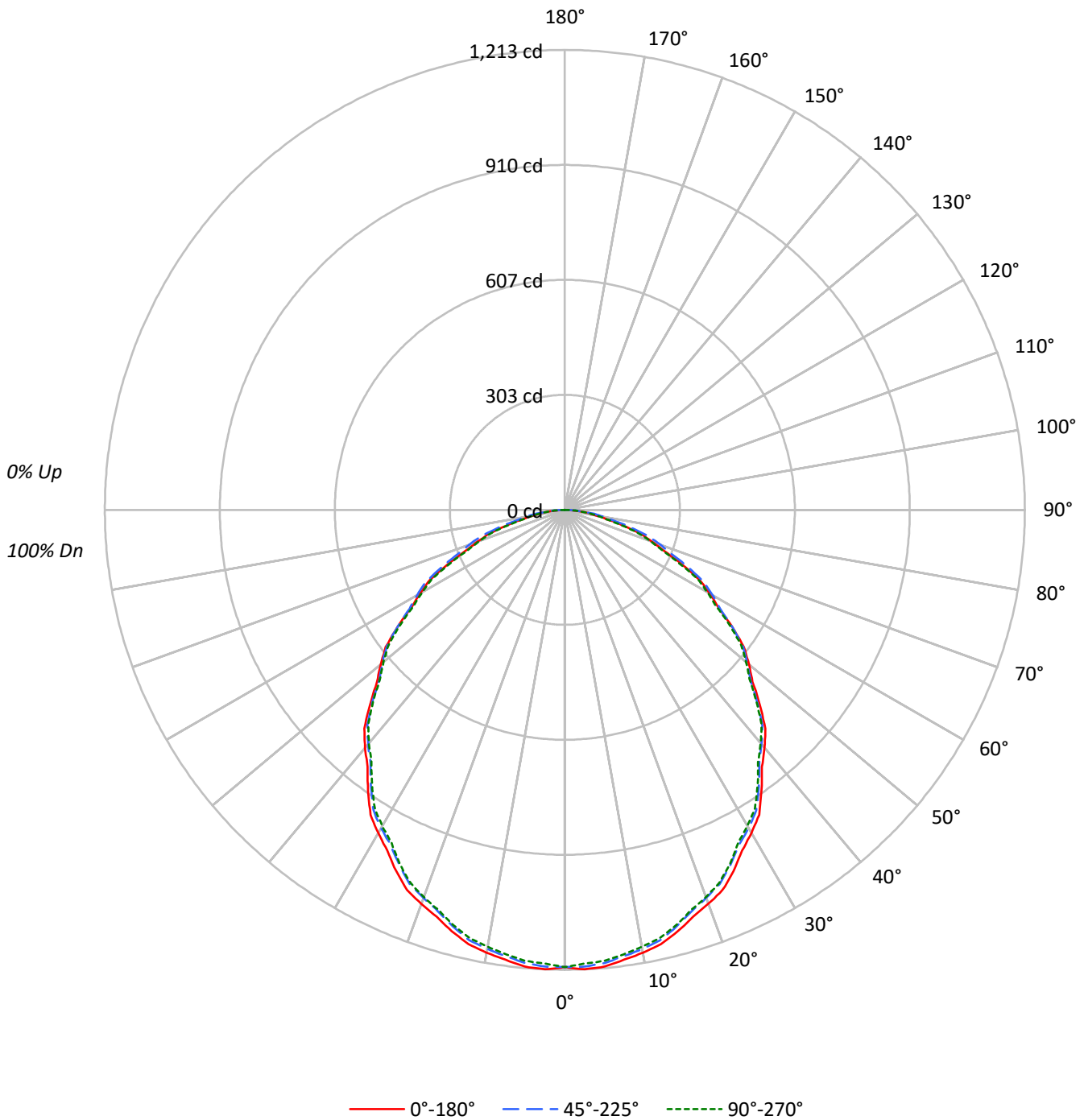
Lumens per Lamp: N/A
Luminaire Lumens: 3068.5 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	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°	5563	5563	5563
5°	5599	5555	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5431	5347	5336
25°	5355	5257	5241
30°	5242	5162	5128
35°	5093	5021	4991
40°	4934	4857	4837
45°	4742	4680	4659
50°	4545	4507	4476
55°	4333	4333	4264
60°	4069	4147	4000
65°	3723	3909	3631
70°	3282	3597	3197
75°	2804	3219	2727
80°	2173	2710	2202
85°	1408	2080	1858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.7
10°-20°	320.6	10.4
20°-30°	475.6	15.5
30°-40°	556.5	18.1
40°-50°	554.0	18.1
50°-60°	478.4	15.6
60°-70°	344.4	11.2
70°-80°	180.6	5.9
80°-90°	44.8	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°	909.8	29.6
0°-40°	1466.3	47.8
0°-60°	2498.8	81.4
0°-90°	3068.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1209	1196	1200	1196	1194	115
15°	1151	1136	1138	1136	1134	324
25°	1052	1034	1033	1026	1030	484
35°	904	892	892	883	886	565
45°	727	721	717	715	714	561
55°	539	538	539	531	530	481
65°	341	352	358	344	333	338
75°	157	172	181	169	153	169
85°	27	35	39	37	35	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.0	1206.0	1206.0	1206.0	1206.0
2.5°	1212.8	1202.9	1206.0	1203.4	1197.5
5°	1209.2	1195.7	1199.7	1196.4	1194.4
7.5°	1196.9	1184.4	1187.3	1183.9	1182.7
10°	1185.9	1173.4	1176.3	1172.0	1169.9
12.5°	1173.1	1159.8	1162.7	1158.4	1157.2
15°	1150.8	1136.2	1138.0	1135.9	1133.8
17.5°	1124.9	1110.1	1110.4	1107.0	1106.6
20°	1106.2	1090.6	1089.2	1085.0	1087.0
22.5°	1085.8	1069.3	1067.9	1062.0	1064.9
25°	1052.0	1034.3	1032.8	1026.5	1029.7
27.5°	1012.9	995.4	995.4	986.6	989.9
30°	984.0	967.3	969.1	958.6	962.7
32.5°	953.4	938.4	939.3	928.8	933.0
35°	904.3	891.8	891.5	883.1	886.2
37.5°	854.1	843.1	841.4	836.5	837.3
40°	819.3	809.9	806.5	803.3	803.3
42.5°	782.7	774.2	770.8	768.5	767.6
45°	726.8	720.6	717.3	715.1	714.1
47.5°	671.6	665.7	662.8	661.3	660.3
50°	633.3	629.2	628.0	624.8	623.7
52.5°	595.1	592.6	591.4	587.4	586.3
55°	538.7	537.7	538.7	531.3	530.2
57.5°	480.1	481.7	485.2	475.1	472.6
60°	441.0	445.1	449.5	437.7	433.5
62.5°	401.0	407.7	413.8	400.3	394.4
65°	341.1	351.5	358.1	344.0	332.6
67.5°	283.3	296.2	304.1	288.9	276.1
70°	243.3	257.9	266.7	251.5	237.0
72.5°	208.5	224.7	231.9	217.5	203.0
75°	157.3	171.8	180.6	168.6	153.0
77.5°	111.6	125.3	132.6	122.1	109.2
80°	81.8	96.4	102.0	93.3	82.9
82.5°	58.0	70.1	74.0	68.7	61.6
85°	26.6	34.9	39.3	37.1	35.1
87.5°	6.8	12.6	16.2	16.2	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)