

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: P563494

Luminaire Tested: **SQ4-PP3-0U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563494
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

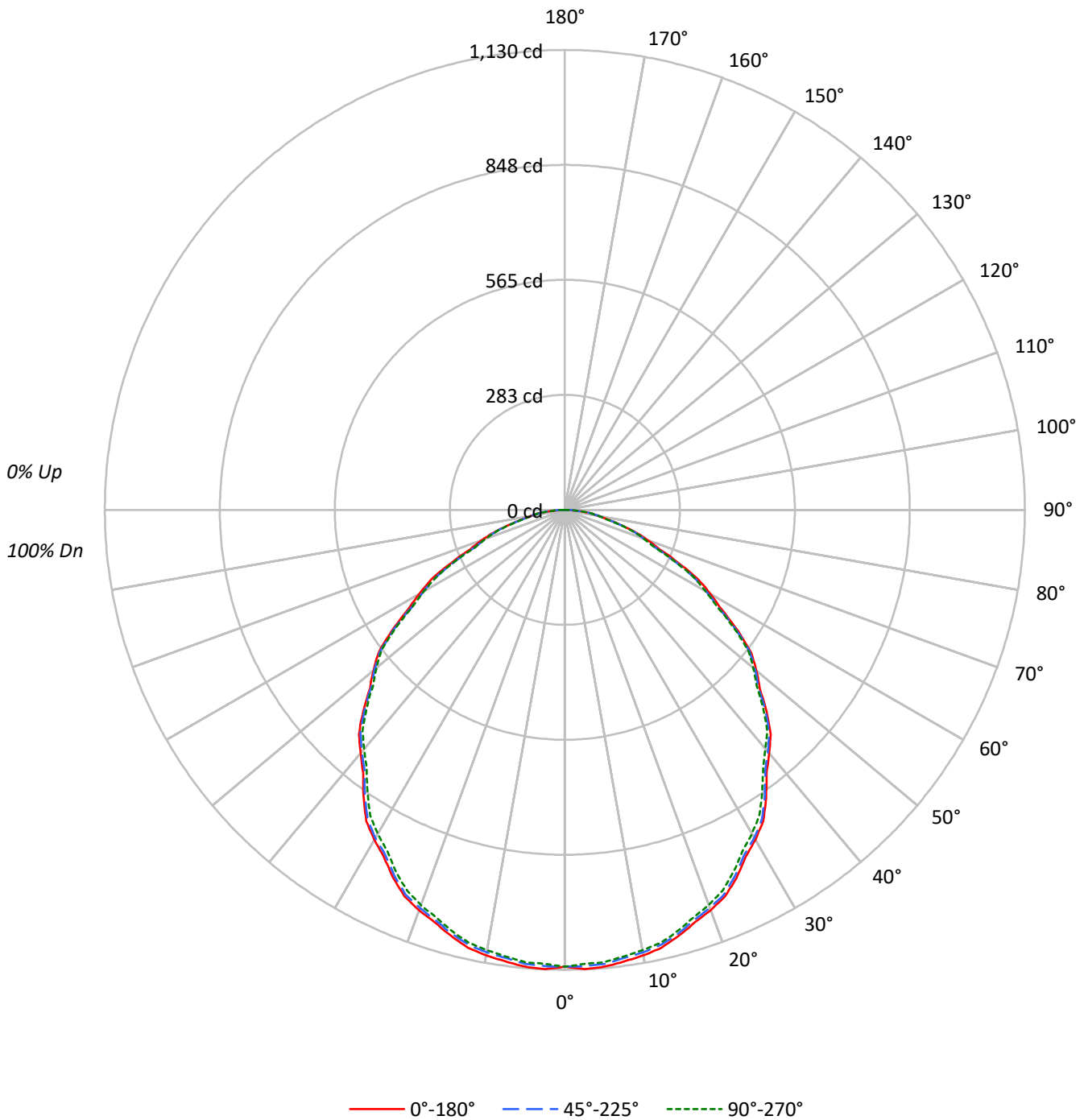
Lumens per Lamp: N/A
Luminaire Lumens: 2873.1 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10356	10356	10356
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10085	9986
30°	9967	9915	9790
35°	9707	9640	9518
40°	9397	9338	9230
45°	9140	9076	8986
50°	8812	8756	8671
55°	8356	8245	8181
60°	7606	7388	7353
65°	6702	6423	6401
70°	5786	5546	5546
75°	4980	4909	4841
80°	4389	4442	4341
85°	3440	3747	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.7
10°-20°	303.1	10.5
20°-30°	454.0	15.8
30°-40°	532.5	18.5
40°-50°	534.2	18.6
50°-60°	455.7	15.9
60°-70°	297.2	10.3
70°-80°	149.1	5.2
80°-90°	41.3	1.4
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°	863.2	30.0
0°-40°	1395.7	48.6
0°-60°	2385.6	83.0
0°-90°	2873.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2873.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1126	1116	1120	1116	1116	107
15°	1083	1073	1077	1073	1071	306
25°	998	986	991	982	981	459
35°	862	853	856	846	845	538
45°	700	696	696	689	689	539
55°	520	518	513	510	509	462
65°	307	301	294	292	293	306
75°	140	140	138	137	136	152
85°	32	35	35	35	35	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1129.6	1120.4	1122.5	1120.9	1116.3
5°	1126.5	1115.9	1119.6	1115.7	1115.7
7.5°	1118.8	1107.3	1110.9	1107.0	1106.8
10°	1111.7	1100.2	1103.9	1099.9	1098.9
12.5°	1101.5	1090.0	1094.4	1089.7	1089.5
15°	1083.2	1072.6	1077.3	1073.3	1071.4
17.5°	1062.5	1051.0	1056.6	1051.1	1050.3
20°	1046.8	1035.3	1040.9	1033.0	1033.0
22.5°	1027.9	1016.4	1022.8	1012.6	1012.6
25°	997.6	986.1	990.7	981.8	980.9
27.5°	961.6	950.2	955.1	945.1	944.9
30°	935.6	925.0	930.7	919.9	918.9
32.5°	907.3	897.5	901.6	890.7	889.8
35°	861.8	853.2	855.9	846.1	845.1
37.5°	814.0	805.2	808.3	799.8	799.5
40°	780.2	774.4	775.3	768.3	766.4
42.5°	748.7	742.2	743.0	736.1	735.7
45°	700.5	695.7	695.6	688.7	688.7
47.5°	649.3	645.7	644.6	638.9	638.7
50°	613.9	611.0	610.0	605.0	604.1
52.5°	576.9	575.6	572.2	568.1	567.9
55°	519.5	517.5	512.6	509.6	508.6
57.5°	457.1	453.2	447.6	443.3	444.1
60°	412.2	408.4	400.4	398.5	398.5
62.5°	368.9	364.3	356.3	353.6	355.2
65°	307.0	301.2	294.2	292.2	293.2
67.5°	250.7	245.5	237.9	237.9	237.1
70°	214.5	211.6	205.6	205.6	205.6
72.5°	182.2	180.9	176.5	176.5	175.7
75°	139.7	139.7	137.7	136.7	135.8
77.5°	104.7	105.1	104.1	103.1	101.3
80°	82.6	84.6	83.6	82.6	81.7
82.5°	62.2	64.1	63.9	62.2	62.0
85°	32.5	35.4	35.4	35.4	35.4
87.5°	8.7	11.7	12.6	12.6	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)