

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: P564574

Luminaire Tested: **SQ4-PW1-025U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564574
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742.5 lumens
Efficiency: N/A
Efficacy: 122.5 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: Semi-Direct

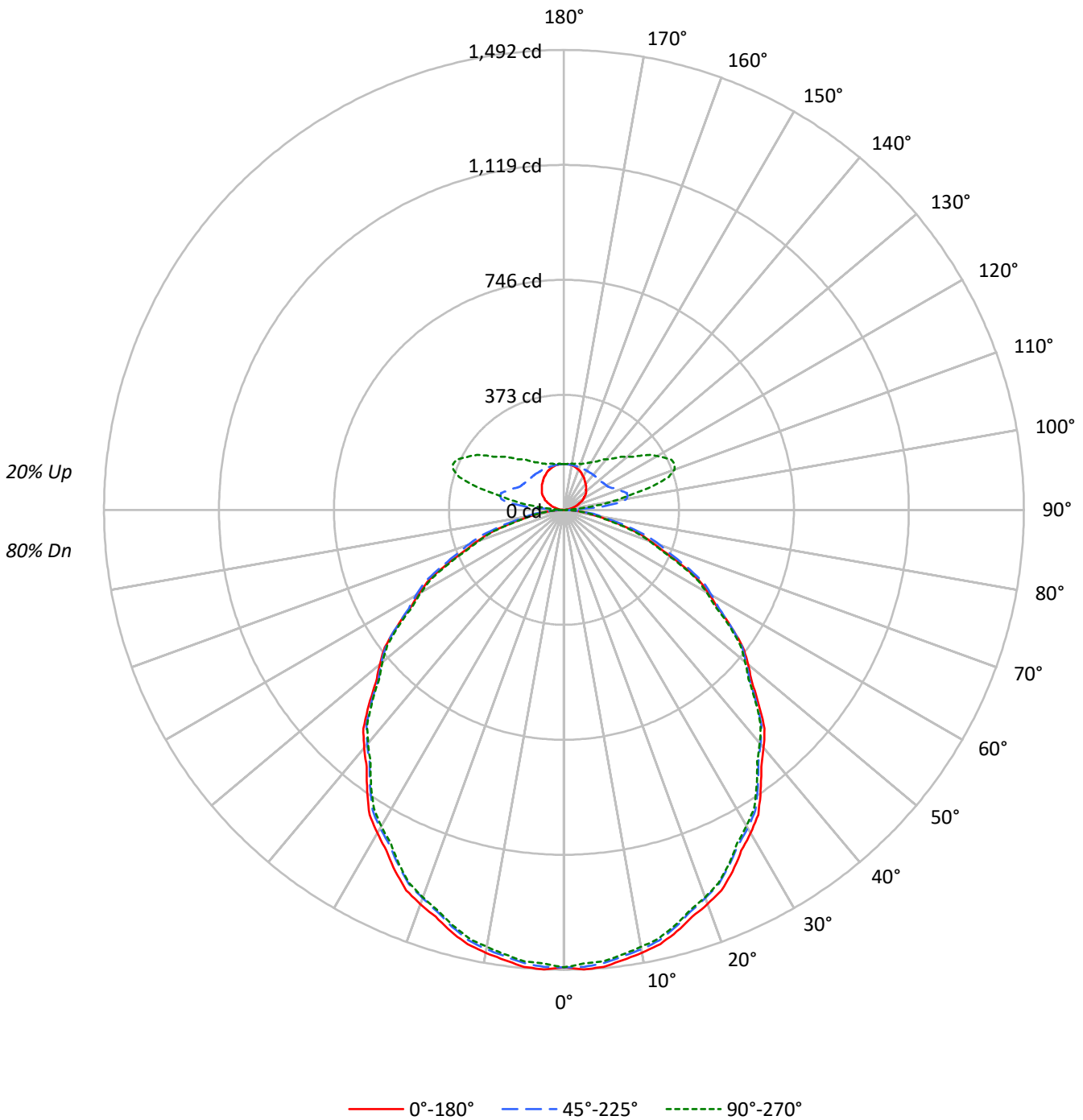
Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	100	96	93	100	96	92	89	88	85	83	81	79	77	74	72	71	67				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41				
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36				
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32				
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25				
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23				
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13692	13692	13692
5°	13781	13672	13612
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12532	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11186	11091	11016
55°	10663	10663	10496
60°	10012	10206	9844
65°	9162	9619	8935
70°	8076	8853	7866
75°	6898	7924	6712
80°	5350	6668	5419
85°	3462	5124	4563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	2.9
10°-20°	394.5	8.3
20°-30°	585.2	12.3
30°-40°	684.8	14.4
40°-50°	681.7	14.4
50°-60°	588.7	12.4
60°-70°	423.7	8.9
70°-80°	222.2	4.7
80°-90°	55.9	1.2
90°-100°	72.6	1.5
100°-110°	190.9	4.0
110°-120°	198.0	4.2
120°-130°	158.8	3.3
130°-140°	124.6	2.6
140°-150°	95.6	2.0
150°-160°	68.9	1.5
160°-170°	42.1	0.9
170°-180°	14.2	0.3
0°-30°	1119.5	23.6
0°-40°	1804.3	38.0
0°-60°	3074.7	64.8
0°-90°	3776.6	79.6
90°-120°	461.6	9.7
90°-150°	840.6	17.7
90°-180°	966.0	20.4
0°-180°	4742.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1488	1471	1476	1472	1470	141
15°	1416	1398	1400	1398	1395	399
25°	1294	1273	1271	1263	1267	595
35°	1113	1097	1097	1087	1090	696
45°	894	887	883	880	879	690
55°	663	662	663	654	652	591
65°	420	432	441	423	409	416
75°	194	211	222	208	188	207
85°	33	43	48	46	43	43
90°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.0	1484.0	1484.0	1484.0	1484.0
2.5°	1492.4	1480.1	1484.0	1480.7	1473.6
5°	1488.0	1471.3	1476.2	1472.2	1469.7
7.5°	1472.8	1457.5	1461.0	1456.8	1455.3
10°	1459.2	1443.9	1447.4	1442.1	1439.6
12.5°	1443.5	1427.1	1430.7	1425.4	1423.9
15°	1416.1	1398.2	1400.4	1397.7	1395.1
17.5°	1384.1	1366.0	1366.4	1362.2	1361.7
20°	1361.1	1342.0	1340.2	1335.0	1337.6
22.5°	1336.0	1315.8	1314.1	1306.8	1310.4
25°	1294.5	1272.7	1270.9	1263.2	1267.0
27.5°	1246.3	1224.9	1224.9	1214.0	1218.1
30°	1210.8	1190.3	1192.5	1179.5	1184.6
32.5°	1173.1	1154.7	1155.9	1142.9	1148.0
35°	1112.7	1097.4	1097.0	1086.6	1090.5
37.5°	1051.0	1037.4	1035.3	1029.3	1030.3
40°	1008.1	996.6	992.4	988.5	988.5
42.5°	963.1	952.6	948.5	945.6	944.6
45°	894.3	886.7	882.6	879.9	878.7
47.5°	826.4	819.2	815.6	813.8	812.5
50°	779.3	774.2	772.7	768.8	767.5
52.5°	732.2	729.1	727.8	722.8	721.5
55°	662.9	661.6	662.9	653.7	652.5
57.5°	590.7	592.8	597.0	584.7	581.6
60°	542.6	547.7	553.1	538.6	533.5
62.5°	493.5	501.6	509.2	492.5	485.4
65°	419.7	432.5	440.6	423.3	409.3
67.5°	348.6	364.4	374.2	355.5	339.7
70°	299.4	317.3	328.2	309.5	291.6
72.5°	256.5	276.5	285.3	267.6	249.7
75°	193.5	211.4	222.3	207.5	188.3
77.5°	137.3	154.2	163.2	150.3	134.4
80°	100.7	118.6	125.5	114.8	102.0
82.5°	71.4	86.2	91.0	84.5	75.8
85°	32.7	42.9	48.4	45.7	43.1
87.5°	8.6	16.1	21.4	20.7	21.7
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

TEST NUMBER: P564574

CATALOG NUMBER: SQ4-PW1-025U-100D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)