

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: P562159

Luminaire Tested: **SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562159
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

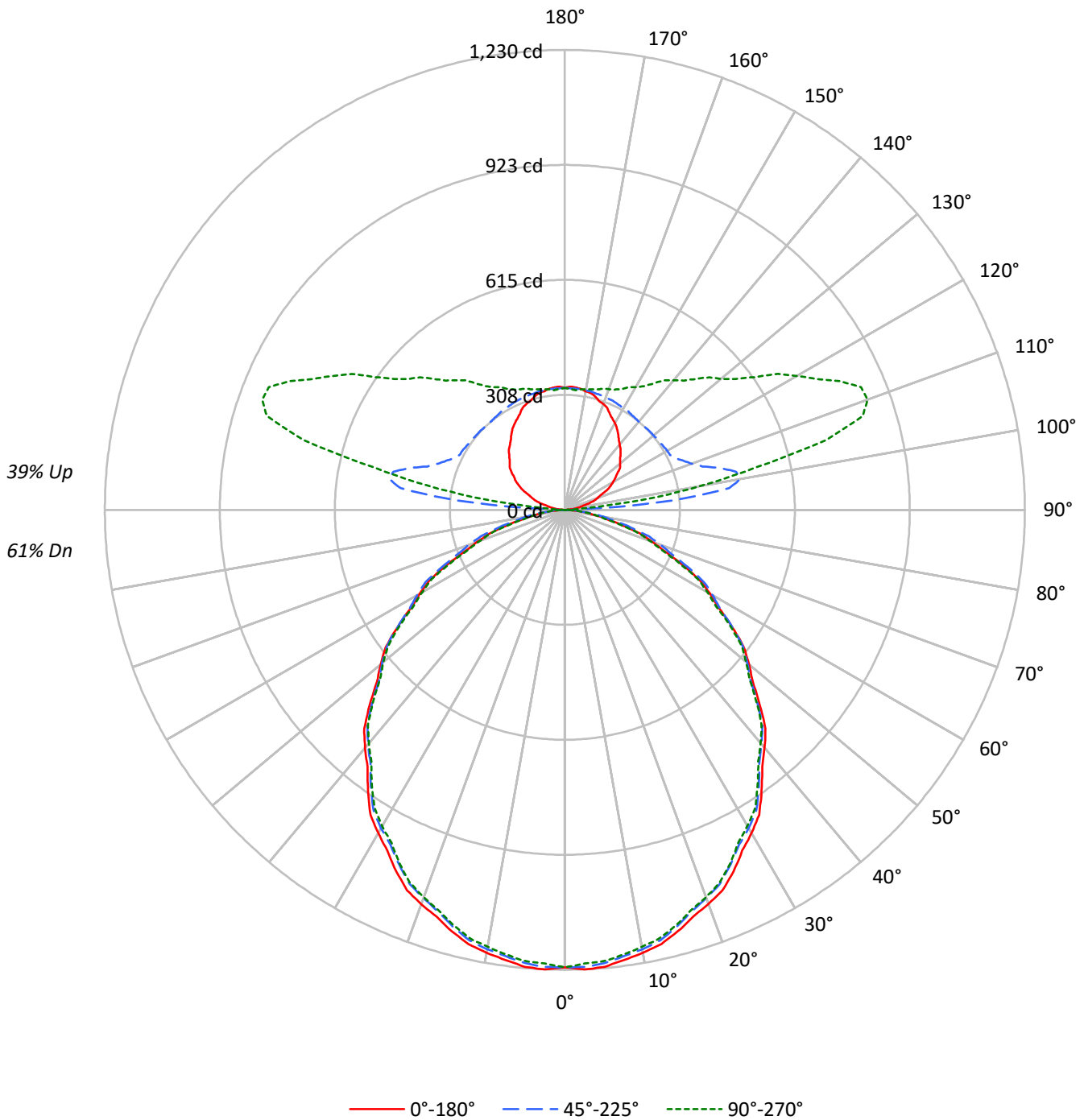
Lumens per Lamp: N/A
Luminaire Lumens: 5138.7 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.8
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	86	83	79	76	74	68	66	65	58	57	56	51
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	83	74	66	61	78	69	63	57	61	56	52	53	49	46	46	43	40	37
4	76	65	57	51	71	62	54	49	54	48	44	47	43	39	41	38	35	31
5	70	58	50	44	65	55	48	42	49	43	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	28	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11286	11286	11286
5°	11360	11270	11220
10°	11269	11179	11118
15°	11150	11026	10984
20°	11016	10847	10826
25°	10863	10666	10632
30°	10633	10472	10403
35°	10331	10185	10124
40°	10009	9853	9813
45°	9619	9492	9451
50°	9221	9143	9081
55°	8791	8791	8651
60°	8254	8412	8115
65°	7554	7929	7366
70°	6658	7297	6485
75°	5686	6531	5532
80°	4410	5499	4468
85°	2848	4224	3769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	2.2
10°-20°	325.2	6.3
20°-30°	482.4	9.4
30°-40°	564.5	11.0
40°-50°	562.0	10.9
50°-60°	485.3	9.4
60°-70°	349.3	6.8
70°-80°	183.2	3.6
80°-90°	45.4	0.9
90°-100°	148.6	2.9
100°-110°	422.9	8.2
110°-120°	405.2	7.9
120°-130°	320.7	6.2
130°-140°	257.4	5.0
140°-150°	201.5	3.9
150°-160°	147.4	2.9
160°-170°	91.3	1.8
170°-180°	31.0	0.6
0°-30°	922.9	18.0
0°-40°	1487.3	28.9
0°-60°	2534.6	49.3
0°-90°	3112.5	60.6
90°-120°	976.8	19.0
90°-150°	1756.4	34.2
90°-180°	2026.0	39.4
0°-180°	5138.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1227	1213	1217	1214	1212	116
15°	1167	1152	1154	1152	1150	329
25°	1067	1049	1048	1041	1044	491
35°	917	905	904	896	899	573
45°	737	731	728	725	724	569
55°	546	545	546	539	538	488
65°	346	356	363	349	337	343
75°	160	174	183	171	155	171
85°	27	35	40	38	36	36
90°	0	0	0	0	0	2
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

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CATALOG NUMBER: SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1230.2	1220.1	1223.3	1220.6	1214.7
5°	1226.6	1212.9	1216.9	1213.6	1211.5
7.5°	1214.1	1201.4	1204.4	1200.9	1199.6
10°	1202.9	1190.2	1193.2	1188.8	1186.7
12.5°	1189.9	1176.4	1179.4	1175.0	1173.8
15°	1167.3	1152.5	1154.4	1152.2	1150.0
17.5°	1141.0	1126.0	1126.3	1122.9	1122.5
20°	1122.0	1106.2	1104.8	1100.5	1102.6
22.5°	1101.3	1084.7	1083.2	1077.3	1080.2
25°	1067.1	1049.1	1047.7	1041.3	1044.4
27.5°	1027.4	1009.7	1009.7	1000.7	1004.1
30°	998.1	981.2	983.0	972.3	976.5
32.5°	967.0	951.9	952.8	942.1	946.3
35°	917.2	904.6	904.3	895.7	898.9
37.5°	866.4	855.2	853.4	848.5	849.3
40°	831.0	821.5	818.1	814.8	814.8
42.5°	793.9	785.3	781.9	779.5	778.6
45°	737.2	730.9	727.5	725.4	724.3
47.5°	681.2	675.3	672.4	670.8	669.8
50°	642.4	638.2	637.0	633.7	632.7
52.5°	603.6	601.1	599.9	595.8	594.7
55°	546.5	545.4	546.5	538.9	537.8
57.5°	487.0	488.6	492.1	481.9	479.4
60°	447.3	451.5	455.9	444.0	439.8
62.5°	406.8	413.5	419.7	406.0	400.1
65°	346.0	356.5	363.2	349.0	337.4
67.5°	287.3	300.4	308.5	293.1	280.0
70°	246.8	261.6	270.5	255.1	240.4
72.5°	211.5	227.9	235.2	220.6	205.9
75°	159.5	174.3	183.2	171.0	155.2
77.5°	113.2	127.1	134.5	123.9	110.8
80°	83.0	97.7	103.5	94.6	84.1
82.5°	58.8	71.1	75.0	69.7	62.5
85°	26.9	35.4	39.9	37.7	35.6
87.5°	6.9	12.8	16.4	16.4	17.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)