

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: P562316

Luminaire Tested: **SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562316
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-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

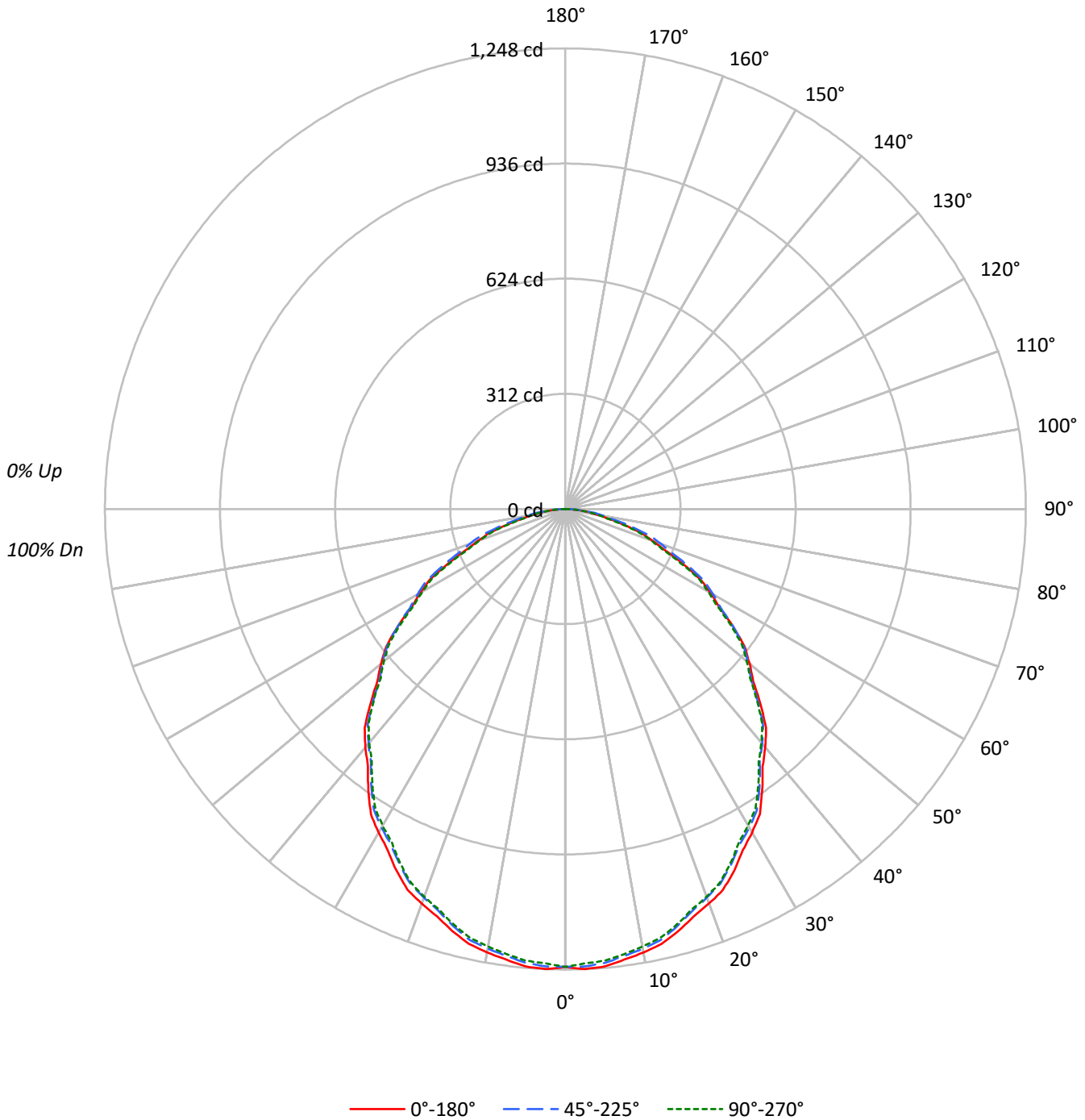
Lumens per Lamp: N/A
Luminaire Lumens: 3156.8 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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



TEST NUMBER: P562316
CATALOG NUMBER: SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (5700K)

Luminous Intensity Polar Plot





TEST NUMBER: P562316

CATALOG NUMBER: SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (5700K)

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°	11448	11448	11448
5°	11521	11430	11380
10°	11430	11338	11276
15°	11308	11183	11141
20°	11173	11001	10980
25°	11018	10817	10784
30°	10785	10622	10551
35°	10478	10331	10269
40°	10151	9993	9953
45°	9756	9628	9585
50°	9351	9274	9211
55°	8915	8915	8775
60°	8372	8532	8230
65°	7661	8043	7471
70°	6752	7402	6577
75°	5768	6623	5611
80°	4474	5574	4532
85°	2890	4277	3822



TEST NUMBER: P562316

CATALOG NUMBER: SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (5700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	3.7
10°-20°	329.9	10.4
20°-30°	489.3	15.5
30°-40°	572.5	18.1
40°-50°	570.0	18.1
50°-60°	492.2	15.6
60°-70°	354.3	11.2
70°-80°	185.8	5.9
80°-90°	46.1	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°	936.0	29.7
0°-40°	1508.5	47.8
0°-60°	2570.7	81.4
0°-90°	3156.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1244	1230	1234	1231	1229	118
15°	1184	1169	1171	1169	1166	334
25°	1082	1064	1063	1056	1059	498
35°	930	918	917	908	912	582
45°	748	741	738	736	735	577
55°	554	553	554	547	546	495
65°	351	362	368	354	342	348
75°	162	177	186	174	157	173
85°	27	36	40	38	36	37
90°	0	0	0	0	0	

TEST NUMBER: P562316

CATALOG NUMBER: SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.8	1240.8	1240.8	1240.8	1240.8
2.5°	1247.8	1237.5	1240.8	1238.0	1232.0
5°	1244.0	1230.1	1234.2	1230.9	1228.7
7.5°	1231.4	1218.5	1221.5	1218.0	1216.7
10°	1220.0	1207.2	1210.2	1205.7	1203.6
12.5°	1206.9	1193.2	1196.2	1191.8	1190.5
15°	1183.9	1169.0	1170.8	1168.6	1166.4
17.5°	1157.2	1142.1	1142.4	1138.9	1138.4
20°	1138.0	1122.0	1120.5	1116.2	1118.3
22.5°	1117.0	1100.1	1098.6	1092.6	1095.6
25°	1082.3	1064.1	1062.6	1056.1	1059.3
27.5°	1042.0	1024.1	1024.1	1015.0	1018.4
30°	1012.3	995.2	997.0	986.1	990.4
32.5°	980.8	965.4	966.4	955.5	959.8
35°	930.3	917.5	917.2	908.5	911.7
37.5°	878.7	867.4	865.6	860.6	861.4
40°	842.8	833.2	829.7	826.4	826.4
42.5°	805.2	796.5	793.0	790.6	789.7
45°	747.7	741.3	737.9	735.7	734.6
47.5°	690.9	684.9	681.9	680.4	679.3
50°	651.5	647.3	646.1	642.8	641.7
52.5°	612.2	609.6	608.5	604.3	603.2
55°	554.2	553.2	554.2	546.6	545.5
57.5°	493.9	495.6	499.1	488.8	486.2
60°	453.7	457.9	462.4	450.3	446.0
62.5°	412.6	419.4	425.7	411.8	405.8
65°	350.9	361.6	368.4	353.9	342.2
67.5°	291.4	304.7	312.9	297.3	284.0
70°	250.3	265.3	274.4	258.7	243.8
72.5°	214.5	231.2	238.5	223.8	208.8
75°	161.8	176.8	185.8	173.5	157.4
77.5°	114.8	128.9	136.4	125.6	112.4
80°	84.2	99.1	104.9	96.0	85.3
82.5°	59.7	72.1	76.1	70.7	63.4
85°	27.3	35.9	40.4	38.2	36.1
87.5°	7.0	13.0	16.6	16.6	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)