

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: P562264

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562264
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-PW1-075U-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

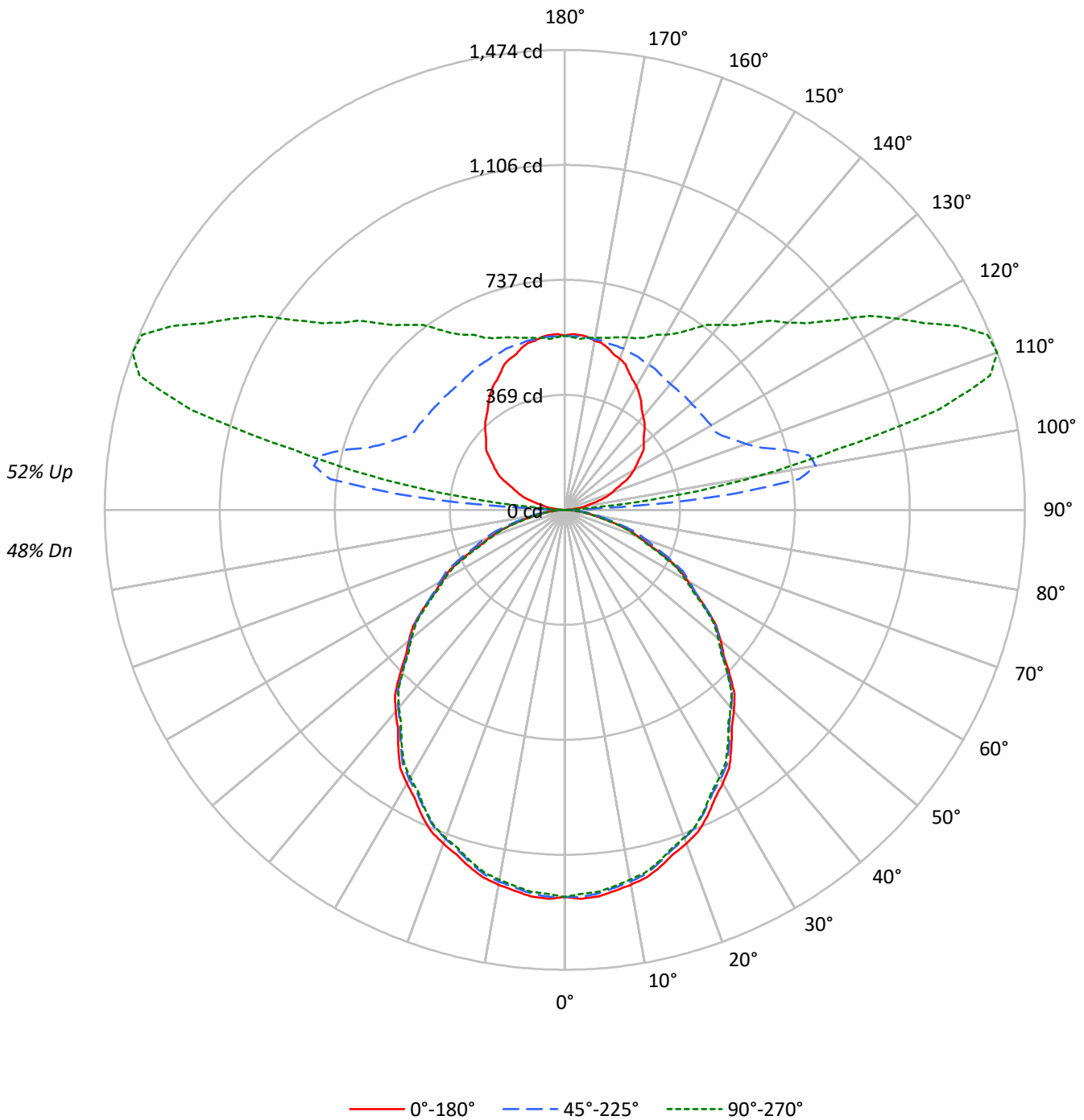
Lumens per Lamp: N/A
Luminaire Lumens: 6623.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.4
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	28	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.8
10°-20°	329.9	5.0
20°-30°	489.3	7.4
30°-40°	572.5	8.6
40°-50°	570.0	8.6
50°-60°	492.2	7.4
60°-70°	354.3	5.3
70°-80°	185.8	2.8
80°-90°	46.1	0.7
90°-100°	254.3	3.8
100°-110°	723.6	10.9
110°-120°	693.3	10.5
120°-130°	548.7	8.3
130°-140°	440.5	6.6
140°-150°	344.8	5.2
150°-160°	252.3	3.8
160°-170°	156.3	2.4
170°-180°	53.0	0.8
0°-30°	936.0	14.1
0°-40°	1508.5	22.8
0°-60°	2570.7	38.8
0°-90°	3156.8	47.7
90°-120°	1671.3	25.2
90°-150°	3005.3	45.4
90°-180°	3467.0	52.3
0°-180°	6623.7	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	36
90°	0	0	0	0	0	2
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

TEST NUMBER: P562264

CATALOG NUMBER: SQ4-PW1-075U-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
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)