

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: P523743

Luminaire Tested: **SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523743
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6721.7 lumens
Efficiency: N/A
Efficacy: 121.8 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: General Diffuse

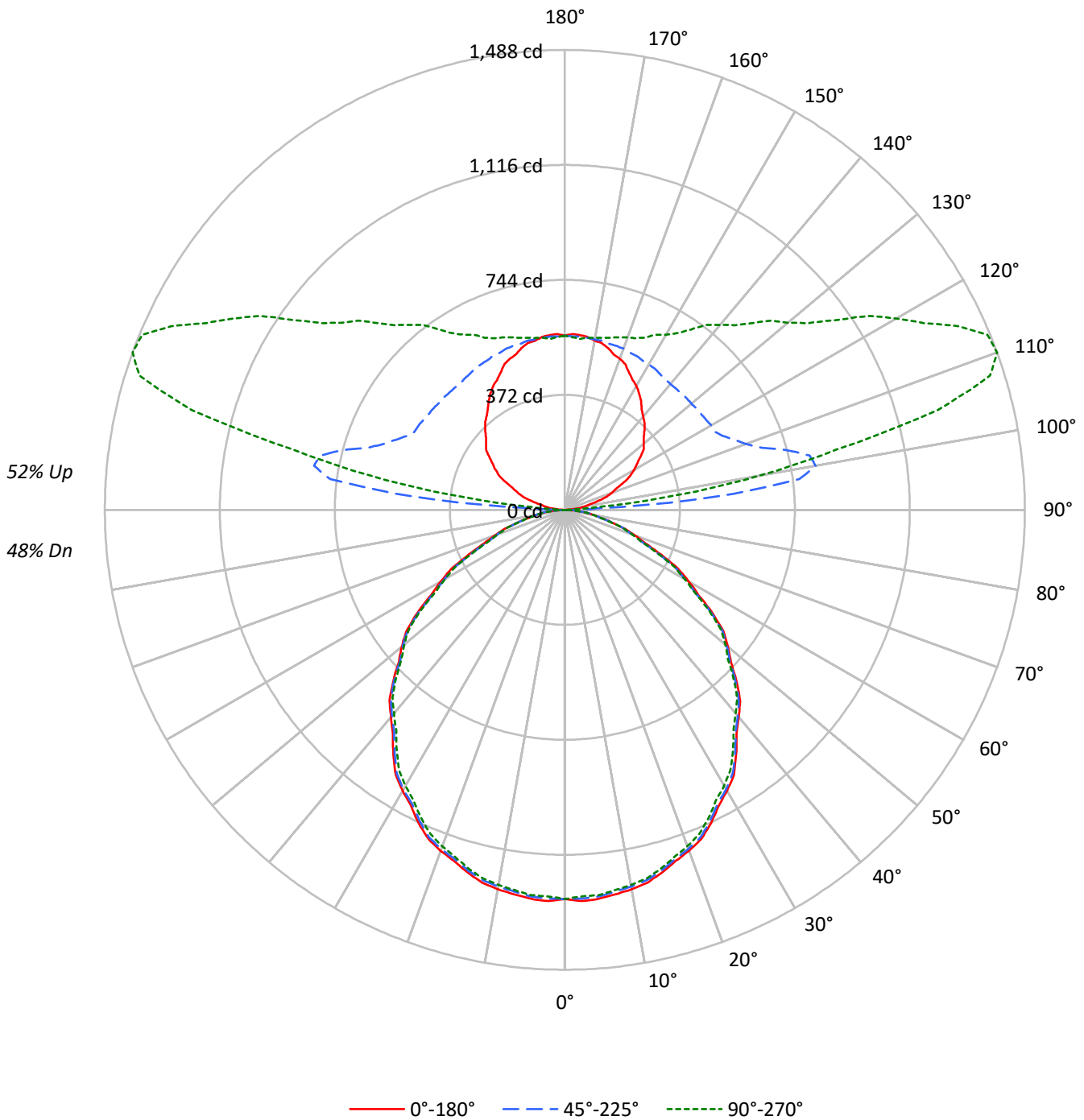
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	68	68	68	54	54	54	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39	34
3	81	72	65	59	74	66	60	55	56	52	48	47	43	40	38	36	33	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11614	11614	11614
5°	11700	11628	11587
10°	11680	11597	11546
15°	11602	11539	11476
20°	11526	11461	11375
25°	11388	11310	11198
30°	11178	11119	10978
35°	10886	10811	10674
40°	10537	10471	10352
45°	10249	10177	10077
50°	9882	9818	9723
55°	9370	9246	9175
60°	8531	8285	8245
65°	7514	7202	7178
70°	6488	6221	6221
75°	5586	5508	5429
80°	4925	4984	4867
85°	3853	4203	4203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.8
10°-20°	339.9	5.1
20°-30°	509.1	7.6
30°-40°	597.2	8.9
40°-50°	599.0	8.9
50°-60°	511.0	7.6
60°-70°	333.3	5.0
70°-80°	167.2	2.5
80°-90°	46.3	0.7
90°-100°	256.7	3.8
100°-110°	730.5	10.9
110°-120°	699.9	10.4
120°-130°	553.9	8.2
130°-140°	444.6	6.6
140°-150°	348.1	5.2
150°-160°	254.7	3.8
160°-170°	157.8	2.3
170°-180°	53.5	0.8
0°-30°	968.0	14.4
0°-40°	1565.2	23.3
0°-60°	2675.2	39.8
0°-90°	3222.0	47.9
90°-120°	1687.1	25.1
90°-150°	3033.8	45.1
90°-180°	3500.0	52.1
0°-180°	6721.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1263	1251	1256	1251	1251	120
15°	1215	1203	1208	1204	1202	343
25°	1119	1106	1111	1101	1100	514
35°	966	957	960	949	948	604
45°	786	780	780	772	772	605
55°	582	580	575	572	570	518
65°	344	338	330	328	329	344
75°	157	157	154	153	152	170
85°	36	40	40	40	40	43
90°	0	0	0	0	0	3
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.8	1258.8	1258.8	1258.8	1258.8
2.5°	1266.8	1256.4	1258.8	1257.0	1251.8
5°	1263.3	1251.4	1255.5	1251.1	1251.1
7.5°	1254.7	1241.7	1245.8	1241.4	1241.2
10°	1246.7	1233.8	1237.9	1233.4	1232.4
12.5°	1235.2	1222.3	1227.3	1222.0	1221.8
15°	1214.7	1202.9	1208.1	1203.6	1201.5
17.5°	1191.5	1178.6	1184.9	1178.7	1177.9
20°	1173.9	1161.0	1167.3	1158.5	1158.5
22.5°	1152.7	1139.8	1147.0	1135.5	1135.5
25°	1118.7	1105.8	1111.0	1101.1	1100.0
27.5°	1078.4	1065.6	1071.1	1059.8	1059.6
30°	1049.2	1037.4	1043.7	1031.5	1030.5
32.5°	1017.5	1006.4	1011.1	998.9	997.8
35°	966.5	956.8	959.9	948.8	947.7
37.5°	912.9	902.9	906.5	897.0	896.5
40°	874.9	868.4	869.4	861.6	859.5
42.5°	839.6	832.3	833.2	825.5	825.0
45°	785.5	780.1	780.0	772.3	772.3
47.5°	728.2	724.1	722.9	716.5	716.3
50°	688.5	685.2	684.0	678.5	677.4
52.5°	647.0	645.5	641.7	637.0	636.8
55°	582.5	580.4	574.8	571.5	570.4
57.5°	512.6	508.3	502.0	497.2	498.0
60°	462.3	458.0	449.0	446.8	446.8
62.5°	413.7	408.6	399.6	396.6	398.3
65°	344.2	337.8	329.9	327.7	328.8
67.5°	281.1	275.3	266.8	266.8	265.9
70°	240.5	237.3	230.6	230.6	230.6
72.5°	204.3	202.8	197.9	197.9	197.0
75°	156.7	156.7	154.5	153.3	152.3
77.5°	117.4	117.8	116.7	115.6	113.6
80°	92.7	94.8	93.8	92.7	91.6
82.5°	69.7	71.9	71.7	69.7	69.5
85°	36.4	39.6	39.7	39.7	39.7
87.5°	9.7	13.2	14.1	14.1	15.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)