

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

Brand: CORELITE

Report Number: P688480

Luminaire Tested: SQ4R-PC3-100D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-100D-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.4 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

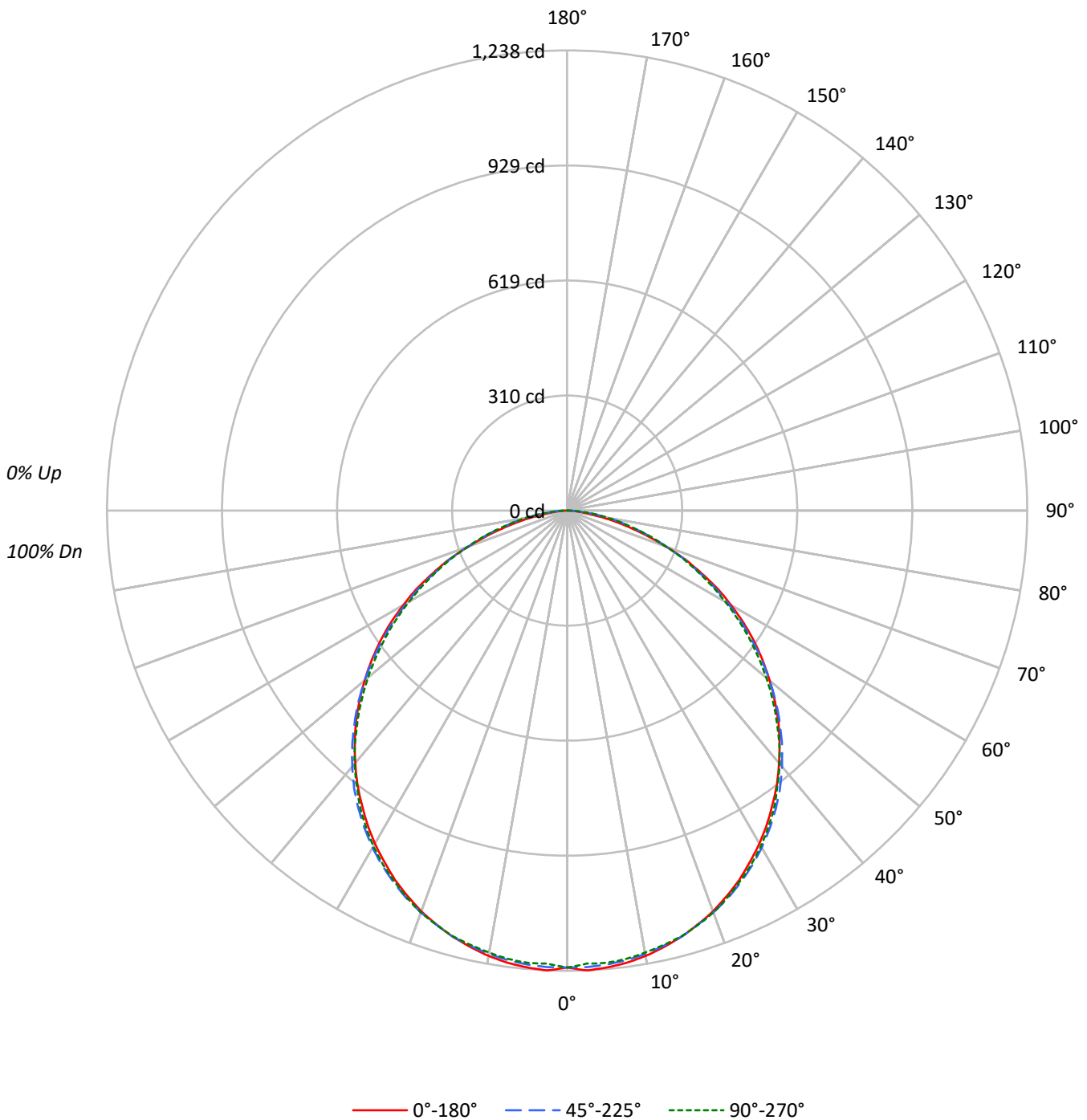
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688480

CATALOG NUMBER: SQ4R-PC3-100D-935-1-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P688480

CATALOG NUMBER: SQ4R-PC3-100D-935-1-UNV-STD-W-4

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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11834	11834	11834
5°	11924	11846	11803
10°	11894	11839	11805
15°	11832	11832	11821
20°	11754	11789	11789
25°	11643	11727	11691
30°	11501	11640	11590
35°	11330	11504	11424
40°	11142	11301	11186
45°	10941	11017	10847
50°	10655	10655	10484
55°	10316	10183	10029
60°	9818	9622	9468
65°	9076	8893	8816
70°	7946	8008	7977
75°	6394	7071	7112
80°	4541	5993	6060
85°	2762	5026	5026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11017 cd/sqm

TEST NUMBER: P688480

CATALOG NUMBER: SQ4R-PC3-100D-935-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.5
10°-20°	334.0	10.0
20°-30°	505.8	15.1
30°-40°	606.5	18.1
40°-50°	618.4	18.4
50°-60°	539.7	16.1
60°-70°	386.4	11.5
70°-80°	198.5	5.9
80°-90°	49.7	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°	956.2	28.5
0°-40°	1562.7	46.6
0°-60°	2720.8	81.1
0°-90°	3355.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1234	1221	1226	1222	1221	117
15°	1187	1177	1187	1187	1186	335
25°	1096	1088	1104	1101	1101	505
35°	964	962	979	972	972	603
45°	804	801	809	799	797	619
55°	615	607	607	598	598	548
65°	398	389	390	387	387	395
75°	172	180	190	191	191	185
85°	25	39	46	47	46	34
90°	0	0	0	0	0	

TEST NUMBER: P688480

CATALOG NUMBER: SQ4R-PC3-100D-935-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.2	1229.2	1229.2	1229.2	1229.2
2.5°	1238.3	1224.7	1229.2	1225.8	1220.1
5°	1233.8	1221.3	1225.8	1222.4	1221.3
7.5°	1227.0	1214.4	1220.1	1217.9	1216.7
10°	1216.7	1204.2	1211.0	1208.8	1207.6
12.5°	1203.1	1191.7	1199.6	1197.4	1197.4
15°	1187.1	1176.9	1187.1	1187.1	1186.0
17.5°	1167.8	1158.7	1168.9	1170.1	1168.9
20°	1147.3	1137.0	1150.7	1149.6	1150.7
22.5°	1122.3	1114.3	1129.1	1125.7	1126.8
25°	1096.1	1088.1	1104.0	1100.6	1100.6
27.5°	1065.3	1059.6	1076.7	1073.3	1073.3
30°	1034.6	1028.9	1047.1	1042.6	1042.6
32.5°	1000.5	997.0	1014.1	1008.4	1008.4
35°	964.0	961.8	978.8	972.0	972.0
37.5°	927.6	925.3	941.3	933.3	929.9
40°	886.6	885.5	899.2	890.1	890.1
42.5°	845.7	844.5	855.9	844.5	844.5
45°	803.6	801.3	809.2	799.0	796.7
47.5°	758.0	755.8	761.4	750.1	748.9
50°	711.4	709.1	711.4	701.1	700.0
52.5°	663.6	659.0	659.0	648.8	648.8
55°	614.6	606.7	606.7	597.5	597.5
57.5°	563.4	553.2	554.3	546.3	545.2
60°	509.9	498.5	499.7	492.8	491.7
62.5°	457.6	443.9	447.3	439.3	439.3
65°	398.4	389.3	390.4	387.0	387.0
67.5°	343.7	334.6	340.3	336.9	336.9
70°	282.3	276.6	284.5	284.5	283.4
72.5°	225.4	226.5	236.7	236.7	237.9
75°	171.9	179.8	190.1	191.2	191.2
77.5°	122.9	136.6	148.0	148.0	148.0
80°	81.9	97.9	108.1	110.4	109.3
82.5°	48.9	66.0	74.0	76.3	75.1
85°	25.0	38.7	45.5	46.7	45.5
87.5°	9.1	19.3	22.8	22.8	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)