

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: P688662

Luminaire Tested: SQ4R-PC3-075D-92765-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688662
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-PC3-075D-92765-1-UNV-STD-W-4_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3098.6 lumens
Efficiency: N/A
Efficacy: 94.2 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

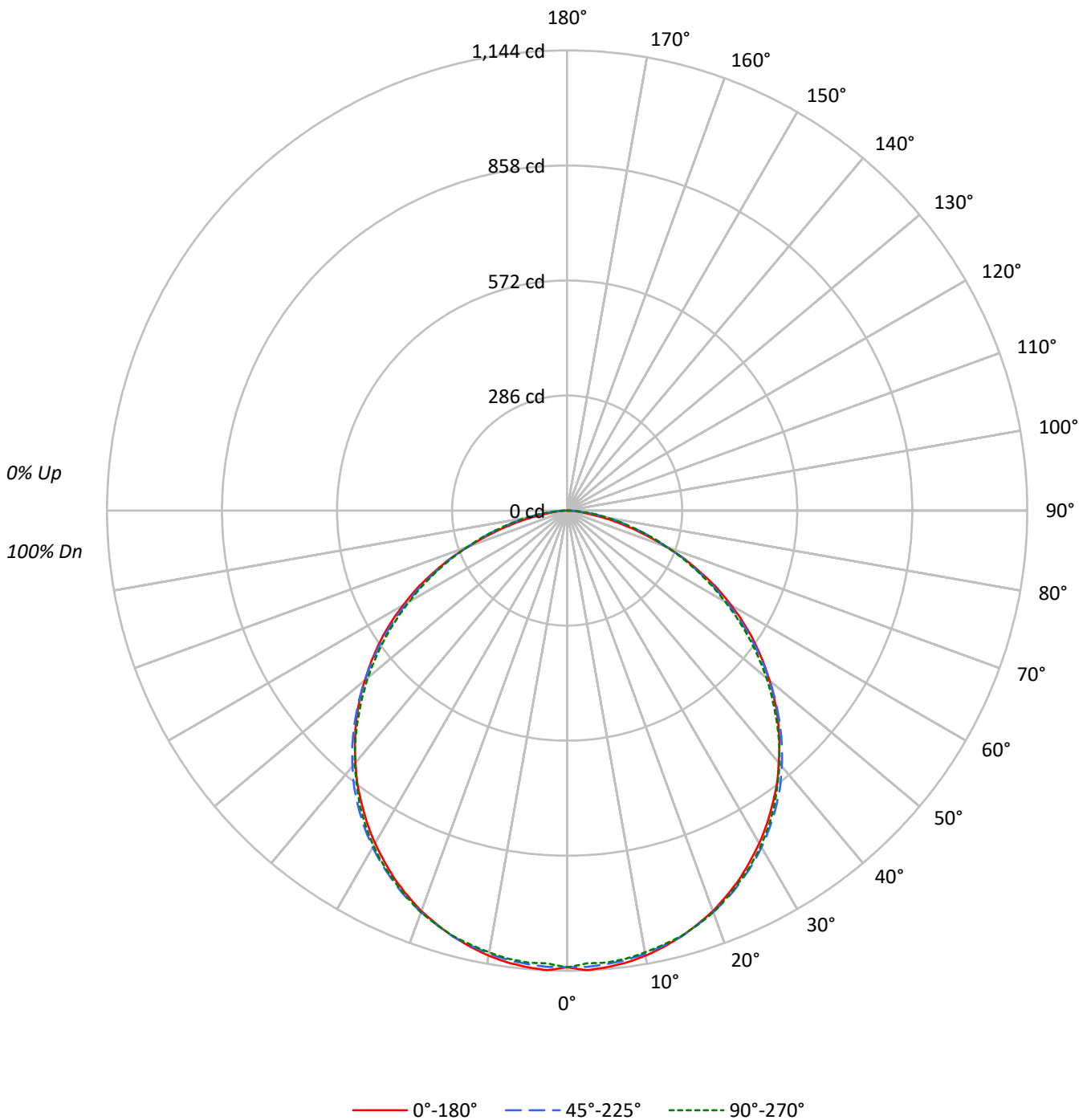
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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					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°	10929	10929	10929
5°	11011	10940	10899
10°	10984	10933	10902
15°	10927	10927	10916
20°	10855	10887	10887
25°	10752	10830	10797
30°	10621	10750	10703
35°	10464	10623	10549
40°	10290	10436	10329
45°	10104	10175	10018
50°	9839	9839	9681
55°	9527	9403	9262
60°	9067	8884	8744
65°	8381	8212	8142
70°	7338	7397	7366
75°	5903	6528	6569
80°	4197	5539	5594
85°	2552	4639	4639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10175 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.5
10°-20°	308.5	10.0
20°-30°	467.1	15.1
30°-40°	560.1	18.1
40°-50°	571.1	18.4
50°-60°	498.4	16.1
60°-70°	356.9	11.5
70°-80°	183.3	5.9
80°-90°	45.9	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°	883.1	28.5
0°-40°	1443.1	46.6
0°-60°	2512.6	81.1
0°-90°	3098.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1139	1128	1132	1129	1128	108
15°	1096	1087	1096	1096	1095	309
25°	1012	1005	1020	1016	1016	466
35°	890	888	904	898	898	557
45°	742	740	747	738	736	572
55°	568	560	560	552	552	506
65°	368	360	360	357	357	364
75°	159	166	176	177	177	171
85°	23	36	42	43	42	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.2	1135.2	1135.2	1135.2	1135.2
2.5°	1143.6	1131.0	1135.2	1132.0	1126.8
5°	1139.4	1127.8	1132.0	1128.9	1127.8
7.5°	1133.1	1121.5	1126.8	1124.7	1123.6
10°	1123.6	1112.0	1118.4	1116.2	1115.2
12.5°	1111.0	1100.5	1107.8	1105.7	1105.7
15°	1096.3	1086.8	1096.3	1096.3	1095.2
17.5°	1078.4	1070.0	1079.5	1080.5	1079.5
20°	1059.5	1050.0	1062.6	1061.6	1062.6
22.5°	1036.4	1029.0	1042.7	1039.5	1040.6
25°	1012.2	1004.8	1019.5	1016.4	1016.4
27.5°	983.8	978.6	994.3	991.2	991.2
30°	955.4	950.2	967.0	962.8	962.8
32.5°	923.9	920.7	936.5	931.3	931.3
35°	890.3	888.2	903.9	897.6	897.6
37.5°	856.6	854.5	869.2	861.9	858.7
40°	818.8	817.7	830.4	821.9	821.9
42.5°	781.0	779.9	790.4	779.9	779.9
45°	742.1	740.0	747.3	737.9	735.8
47.5°	700.0	697.9	703.2	692.7	691.6
50°	656.9	654.8	656.9	647.5	646.4
52.5°	612.8	608.6	608.6	599.1	599.1
55°	567.6	560.2	560.2	551.8	551.8
57.5°	520.3	510.8	511.9	504.5	503.5
60°	470.9	460.4	461.4	455.1	454.1
62.5°	422.5	409.9	413.1	405.7	405.7
65°	367.9	359.5	360.5	357.4	357.4
67.5°	317.4	309.0	314.3	311.1	311.1
70°	260.7	255.4	262.8	262.8	261.7
72.5°	208.1	209.2	218.6	218.6	219.7
75°	158.7	166.1	175.5	176.6	176.6
77.5°	113.5	126.1	136.6	136.6	136.6
80°	75.7	90.4	99.9	102.0	100.9
82.5°	45.2	61.0	68.3	70.4	69.4
85°	23.1	35.7	42.0	43.1	42.0
87.5°	8.4	17.9	21.0	21.0	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)