

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: P688969

Luminaire Tested: SQ4R-PW1-075D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-075D-92765-1-UNV-STD-W-4_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2630.6 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

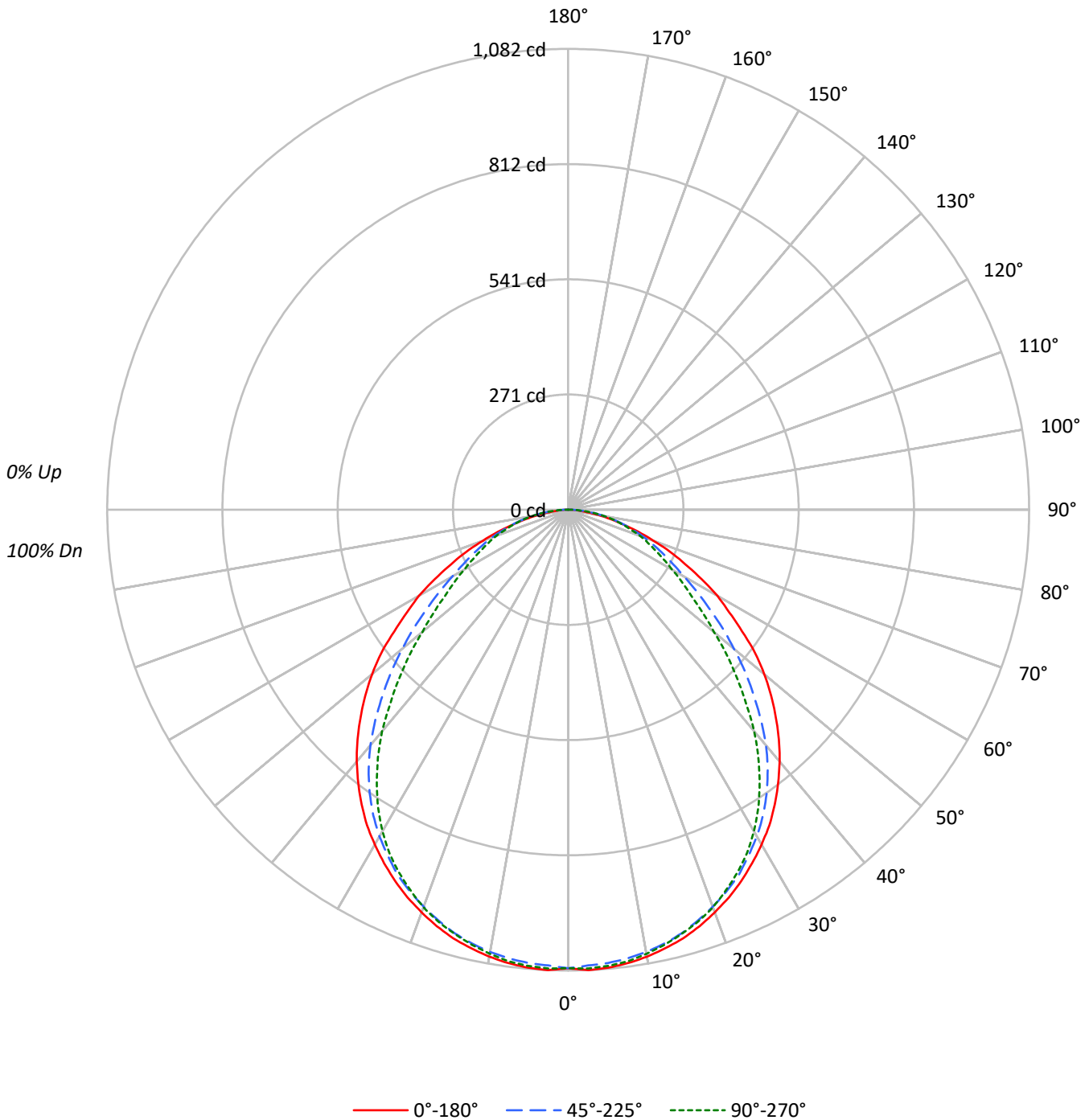
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	59	50	44	57	49	44		55	49	44		54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10365	10365	10365
5°	10431	10324	10391
10°	10417	10309	10349
15°	10386	10262	10276
20°	10307	10165	10180
25°	10217	10054	9981
30°	10092	9846	9692
35°	9937	9547	9205
40°	9705	9079	8540
45°	9382	8384	7649
50°	8995	7607	6695
55°	8362	6759	5923
60°	7781	6048	5436
65°	6905	5611	5139
70°	5998	5337	5064
75°	4940	5044	4839
80°	3914	4757	4757
85°	2905	4275	4430

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9382 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.9
10°-20°	291.8	11.1
20°-30°	437.0	16.6
30°-40°	507.8	19.3
40°-50°	479.1	18.2
50°-60°	373.8	14.2
60°-70°	253.7	9.6
70°-80°	142.9	5.4
80°-90°	42.4	1.6
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°	830.9	31.6
0°-40°	1338.7	50.9
0°-60°	2191.5	83.3
0°-90°	2630.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2630.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1079	1077	1068	1077	1075	103
15°	1042	1038	1030	1035	1031	294
25°	962	958	946	944	940	443
35°	846	837	812	794	783	528
45°	689	668	616	577	562	531
55°	498	469	403	364	353	447
65°	303	275	246	231	226	303
75°	133	138	136	130	130	145
85°	26	37	39	39	40	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1082.2	1079.4	1071.1	1079.4	1078.0
5°	1079.4	1076.6	1068.3	1076.6	1075.2
7.5°	1073.9	1072.5	1062.8	1071.1	1069.7
10°	1065.6	1064.2	1054.5	1061.4	1058.6
12.5°	1054.5	1053.1	1043.4	1048.9	1046.2
15°	1042.0	1037.9	1029.6	1035.1	1031.0
17.5°	1025.4	1021.3	1011.6	1015.7	1014.3
20°	1006.0	1001.9	992.2	996.4	993.6
22.5°	985.3	981.1	970.1	971.5	967.3
25°	961.8	957.6	946.5	943.8	939.6
27.5°	935.5	932.7	916.1	913.3	909.2
30°	907.8	903.6	885.7	880.1	871.8
32.5°	878.7	870.4	851.1	840.0	830.3
35°	845.5	837.2	812.3	794.3	783.2
37.5°	809.5	797.1	769.4	744.5	733.4
40°	772.2	758.3	722.4	689.1	679.5
42.5°	732.0	715.4	669.8	635.2	618.6
45°	689.1	668.4	615.8	577.1	561.8
47.5°	646.2	620.0	563.2	521.7	505.1
50°	600.6	568.8	507.9	463.6	447.0
52.5°	553.5	518.9	456.7	411.0	398.5
55°	498.2	469.1	402.7	363.9	352.9
57.5°	448.4	416.5	358.4	325.2	316.9
60°	404.1	365.3	314.1	289.2	282.3
62.5°	352.9	318.3	278.2	258.8	251.9
65°	303.1	275.4	246.3	231.1	225.6
67.5°	260.2	236.6	217.3	204.8	202.0
70°	213.1	200.7	189.6	179.9	179.9
72.5°	173.0	168.8	161.9	156.4	152.2
75°	132.8	138.4	135.6	130.1	130.1
77.5°	101.0	109.3	110.7	107.9	109.3
80°	70.6	83.0	85.8	84.4	85.8
82.5°	44.3	59.5	62.3	62.3	63.7
85°	26.3	37.4	38.7	38.7	40.1
87.5°	11.1	18.0	19.4	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)