

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: P688664

Luminaire Tested: SQ4R-PC3-075D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688664
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_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3235.5 lumens
Efficiency: N/A
Efficacy: 98.6 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

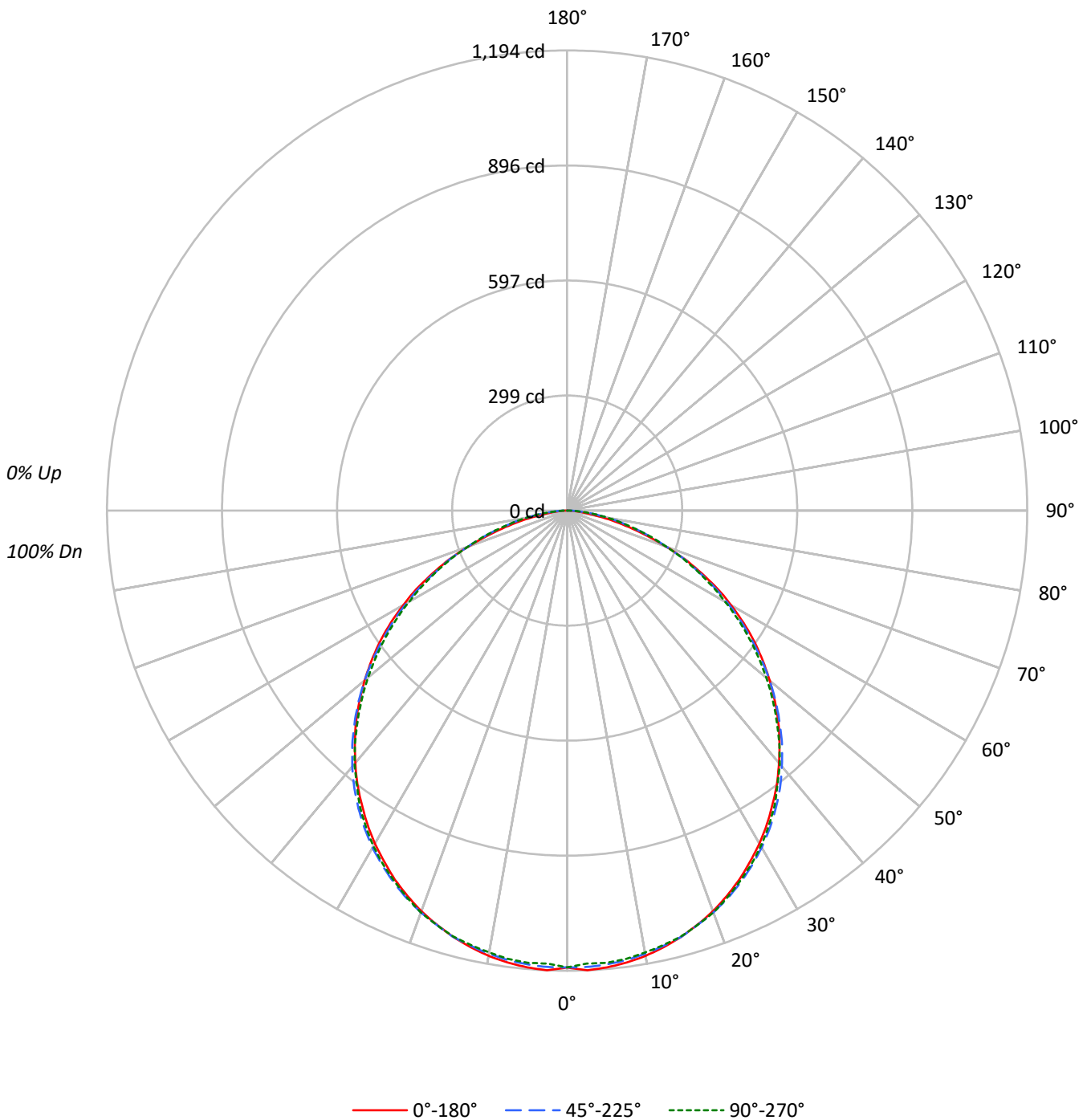
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11411	11411	11411
5°	11497	11423	11380
10°	11469	11415	11383
15°	11409	11409	11398
20°	11334	11368	11368
25°	11227	11309	11274
30°	11090	11225	11176
35°	10925	11092	11016
40°	10745	10896	10786
45°	10549	10624	10459
50°	10273	10273	10110
55°	9947	9819	9671
60°	9468	9277	9129
65°	8750	8574	8499
70°	7662	7724	7693
75°	6164	6818	6859
80°	4380	5783	5844
85°	2662	4849	4849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10624 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.5
10°-20°	322.1	10.0
20°-30°	487.7	15.1
30°-40°	584.8	18.1
40°-50°	596.2	18.4
50°-60°	520.5	16.1
60°-70°	372.6	11.5
70°-80°	191.4	5.9
80°-90°	47.9	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°	922.1	28.5
0°-40°	1506.9	46.6
0°-60°	2623.6	81.1
0°-90°	3235.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3235.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1190	1178	1182	1179	1178	113
15°	1145	1135	1145	1145	1144	323
25°	1057	1049	1065	1061	1061	487
35°	930	927	944	937	937	582
45°	775	773	780	770	768	597
55°	593	585	585	576	576	529
65°	384	375	376	373	373	380
75°	166	173	183	184	184	178
85°	24	37	44	45	44	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1194.1	1180.9	1185.3	1182.0	1176.5
5°	1189.7	1177.6	1182.0	1178.7	1177.6
7.5°	1183.1	1171.0	1176.5	1174.3	1173.2
10°	1173.2	1161.2	1167.7	1165.5	1164.4
12.5°	1160.1	1149.1	1156.8	1154.6	1154.6
15°	1144.7	1134.8	1144.7	1144.7	1143.6
17.5°	1126.0	1117.3	1127.1	1128.2	1127.1
20°	1106.3	1096.4	1109.6	1108.5	1109.6
22.5°	1082.1	1074.5	1088.7	1085.4	1086.5
25°	1056.9	1049.2	1064.6	1061.3	1061.3
27.5°	1027.3	1021.8	1038.2	1034.9	1034.9
30°	997.6	992.1	1009.7	1005.3	1005.3
32.5°	964.7	961.4	977.9	972.4	972.4
35°	929.6	927.4	943.8	937.3	937.3
37.5°	894.5	892.3	907.6	899.9	896.7
40°	855.0	853.9	867.0	858.2	858.2
42.5°	815.4	814.3	825.3	814.3	814.3
45°	774.8	772.6	780.3	770.4	768.2
47.5°	730.9	728.7	734.2	723.3	722.2
50°	685.9	683.7	685.9	676.1	675.0
52.5°	639.8	635.5	635.5	625.6	625.6
55°	592.6	585.0	585.0	576.2	576.2
57.5°	543.3	533.4	534.5	526.8	525.7
60°	491.7	480.7	481.8	475.2	474.1
62.5°	441.2	428.0	431.3	423.6	423.6
65°	384.1	375.3	376.4	373.1	373.1
67.5°	331.4	322.7	328.2	324.9	324.9
70°	272.2	266.7	274.4	274.4	273.3
72.5°	217.3	218.4	228.3	228.3	229.4
75°	165.7	173.4	183.3	184.4	184.4
77.5°	118.5	131.7	142.7	142.7	142.7
80°	79.0	94.4	104.3	106.5	105.4
82.5°	47.2	63.7	71.3	73.5	72.4
85°	24.1	37.3	43.9	45.0	43.9
87.5°	8.8	18.7	21.9	21.9	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)