

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: P688484

Luminaire Tested: SQ4R-PC3-125D-840-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688484
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-PC3-125D-840-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5076.8 lumens
Efficiency: N/A
Efficacy: 102.6 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

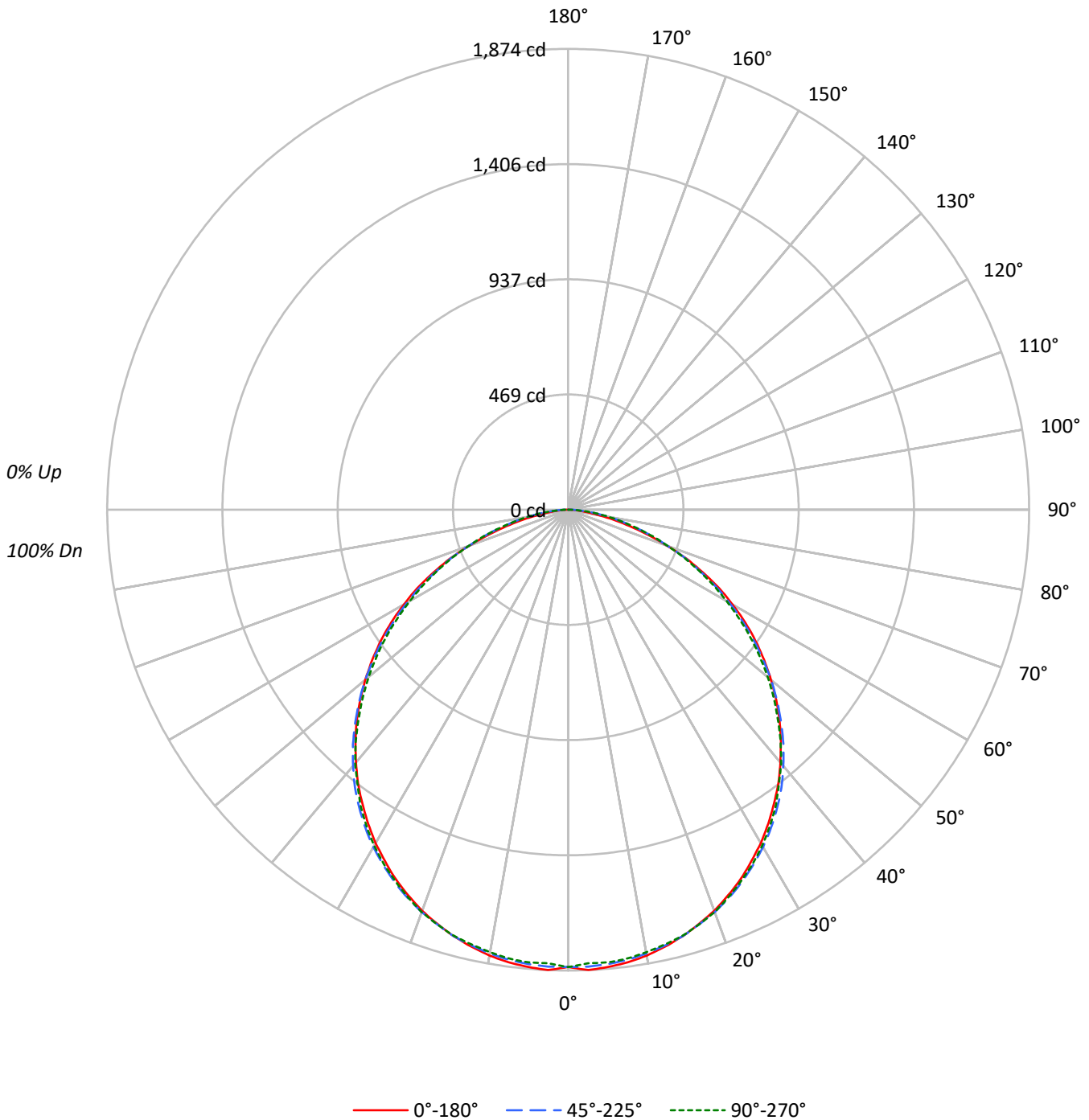
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	17905	17905	17905
5°	18040	17924	17857
10°	17996	17912	17861
15°	17902	17902	17885
20°	17784	17837	17837
25°	17617	17744	17689
30°	17402	17612	17535
35°	17143	17406	17284
40°	16859	17097	16925
45°	16553	16670	16412
50°	16120	16120	15863
55°	15608	15407	15175
60°	14855	14557	14324
65°	13730	13456	13338
70°	12022	12118	12070
75°	9671	10698	10761
80°	6875	9070	9165
85°	4186	7611	7611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	3.5
10°-20°	505.4	10.0
20°-30°	765.3	15.1
30°-40°	917.6	18.1
40°-50°	935.6	18.4
50°-60°	816.6	16.1
60°-70°	584.7	11.5
70°-80°	300.3	5.9
80°-90°	75.1	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°	1446.8	28.5
0°-40°	2364.4	46.6
0°-60°	4116.7	81.1
0°-90°	5076.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5076.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1867	1848	1855	1850	1848	177
15°	1796	1781	1796	1796	1794	507
25°	1658	1646	1670	1665	1665	764
35°	1459	1455	1481	1471	1471	913
45°	1216	1212	1224	1209	1205	936
55°	930	918	918	904	904	830
65°	603	589	591	586	586	597
75°	260	272	288	289	289	280
85°	38	59	69	71	69	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1859.8	1859.8	1859.8	1859.8	1859.8
2.5°	1873.6	1852.9	1859.8	1854.7	1846.1
5°	1866.7	1847.8	1854.7	1849.5	1847.8
7.5°	1856.4	1837.5	1846.1	1842.6	1840.9
10°	1840.9	1822.0	1832.3	1828.8	1827.1
12.5°	1820.2	1803.0	1815.1	1811.6	1811.6
15°	1796.1	1780.6	1796.1	1796.1	1794.4
17.5°	1766.8	1753.1	1768.6	1770.3	1768.6
20°	1735.8	1720.3	1741.0	1739.3	1741.0
22.5°	1698.0	1685.9	1708.3	1703.1	1704.9
25°	1658.4	1646.3	1670.4	1665.2	1665.2
27.5°	1611.9	1603.2	1629.1	1623.9	1623.9
30°	1565.4	1556.8	1584.3	1577.4	1577.4
32.5°	1513.7	1508.5	1534.4	1525.8	1525.8
35°	1458.6	1455.2	1481.0	1470.6	1470.6
37.5°	1403.5	1400.0	1424.2	1412.1	1406.9
40°	1341.5	1339.8	1360.4	1346.7	1346.7
42.5°	1279.5	1277.8	1295.0	1277.8	1277.8
45°	1215.8	1212.3	1224.4	1208.9	1205.4
47.5°	1146.9	1143.5	1152.1	1134.8	1133.1
50°	1076.3	1072.9	1076.3	1060.8	1059.1
52.5°	1004.0	997.1	997.1	981.6	981.6
55°	929.9	917.9	917.9	904.1	904.1
57.5°	852.4	836.9	838.6	826.6	824.9
60°	771.5	754.3	756.0	745.7	743.9
62.5°	692.3	671.6	676.8	664.7	664.7
65°	602.7	588.9	590.7	585.5	585.5
67.5°	520.1	506.3	514.9	509.7	509.7
70°	427.1	418.5	430.5	430.5	428.8
72.5°	341.0	342.7	358.2	358.2	359.9
75°	260.0	272.1	287.6	289.3	289.3
77.5°	186.0	206.6	223.9	223.9	223.9
80°	124.0	148.1	163.6	167.0	165.3
82.5°	74.0	99.9	111.9	115.4	113.7
85°	37.9	58.6	68.9	70.6	68.9
87.5°	13.8	29.3	34.4	34.4	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)