

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

(formerly Eaton)

Brand: CORELITE

Report Number: P564207

Luminaire Tested: **SQ4-PR1-0U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564207
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

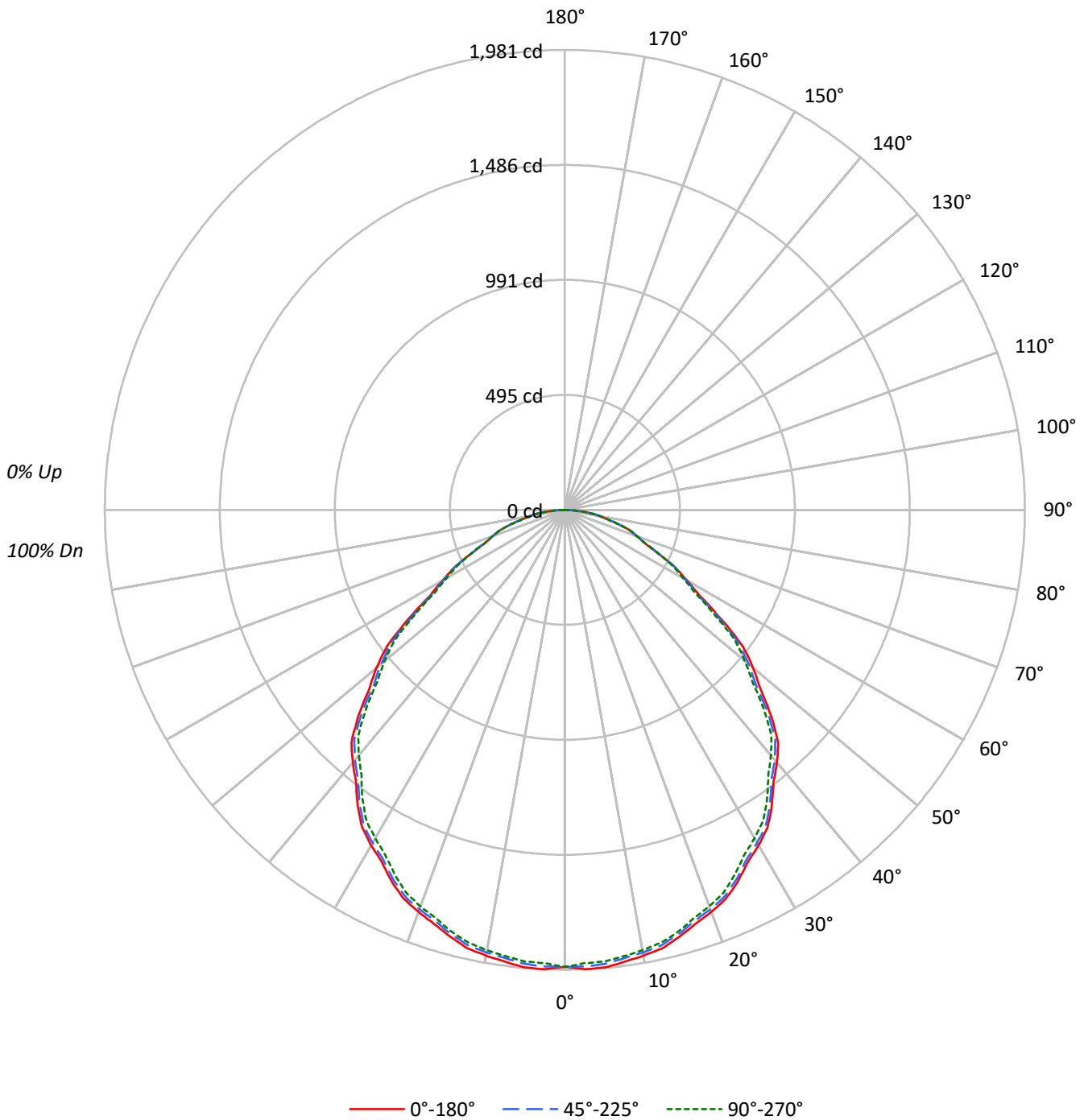
Lumens per Lamp: N/A
Luminaire Lumens: 4920.9 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	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	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12108	12108	12108
5°	12216	12123	12060
10°	12178	12094	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11850	11765	11597
35°	11675	11572	11407
40°	11408	11286	11081
45°	10944	10751	10530
50°	10124	9881	9686
55°	8836	8637	8454
60°	7446	7383	7237
65°	6440	6465	6415
70°	5915	5945	5945
75°	5682	5682	5723
80°	5345	5405	5345
85°	4305	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.8
10°-20°	532.6	10.8
20°-30°	803.3	16.3
30°-40°	957.1	19.5
40°-50°	943.7	19.2
50°-60°	721.2	14.7
60°-70°	446.3	9.1
70°-80°	253.5	5.2
80°-90°	77.1	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°	1522.0	30.9
0°-40°	2479.2	50.4
0°-60°	4144.0	84.2
0°-90°	4920.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4920.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1979	1957	1963	1956	1953	188
15°	1904	1884	1892	1885	1882	537
25°	1765	1744	1753	1734	1733	812
35°	1555	1536	1541	1521	1519	970
45°	1258	1242	1236	1214	1211	964
55°	824	811	805	792	788	738
65°	442	439	444	441	441	448
75°	239	239	239	241	241	252
85°	61	64	68	68	68	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.5	1968.5	1968.5	1968.5	1968.5
2.5°	1980.7	1963.4	1968.5	1964.2	1954.9
5°	1978.6	1957.1	1963.4	1956.5	1953.2
7.5°	1963.4	1942.2	1948.5	1941.6	1939.6
10°	1949.8	1929.9	1936.3	1929.4	1926.1
12.5°	1934.9	1913.7	1921.3	1913.1	1909.8
15°	1904.0	1884.1	1892.2	1885.3	1882.0
17.5°	1870.1	1848.9	1856.9	1849.0	1844.7
20°	1843.0	1823.1	1831.1	1819.2	1817.6
22.5°	1813.2	1793.3	1801.3	1785.3	1785.0
25°	1765.0	1743.5	1753.1	1734.5	1732.8
27.5°	1707.7	1687.8	1695.8	1676.8	1674.8
30°	1668.4	1648.5	1656.5	1636.1	1632.8
32.5°	1623.6	1605.0	1611.7	1591.3	1589.4
35°	1554.8	1536.5	1541.2	1520.8	1519.2
37.5°	1476.4	1459.9	1462.5	1440.1	1438.5
40°	1420.8	1404.2	1405.6	1381.8	1380.1
42.5°	1359.8	1343.2	1341.8	1318.0	1316.4
45°	1258.1	1241.5	1236.0	1213.9	1210.6
47.5°	1142.1	1125.5	1115.3	1097.3	1094.9
50°	1058.0	1041.4	1032.6	1017.2	1012.2
52.5°	967.1	950.5	943.0	929.0	924.0
55°	824.0	810.7	805.4	791.7	788.4
57.5°	688.0	679.1	677.5	664.3	662.9
60°	605.3	600.3	600.2	588.3	588.3
62.5°	534.8	531.1	533.7	525.9	524.6
65°	442.5	439.2	444.2	440.8	440.8
67.5°	369.6	369.6	372.7	371.3	371.3
70°	328.9	328.9	330.6	330.6	330.6
72.5°	292.3	291.0	295.4	295.3	294.0
75°	239.1	239.1	239.1	240.8	240.8
77.5°	186.2	186.5	187.9	187.5	186.2
80°	150.9	152.6	152.6	150.9	150.9
82.5°	115.6	117.3	117.3	117.0	115.6
85°	61.0	64.4	67.8	67.8	67.8
87.5°	17.6	22.9	27.1	27.1	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)