

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: P564184

Luminaire Tested: **SQ4-PR1-0U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564184
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-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

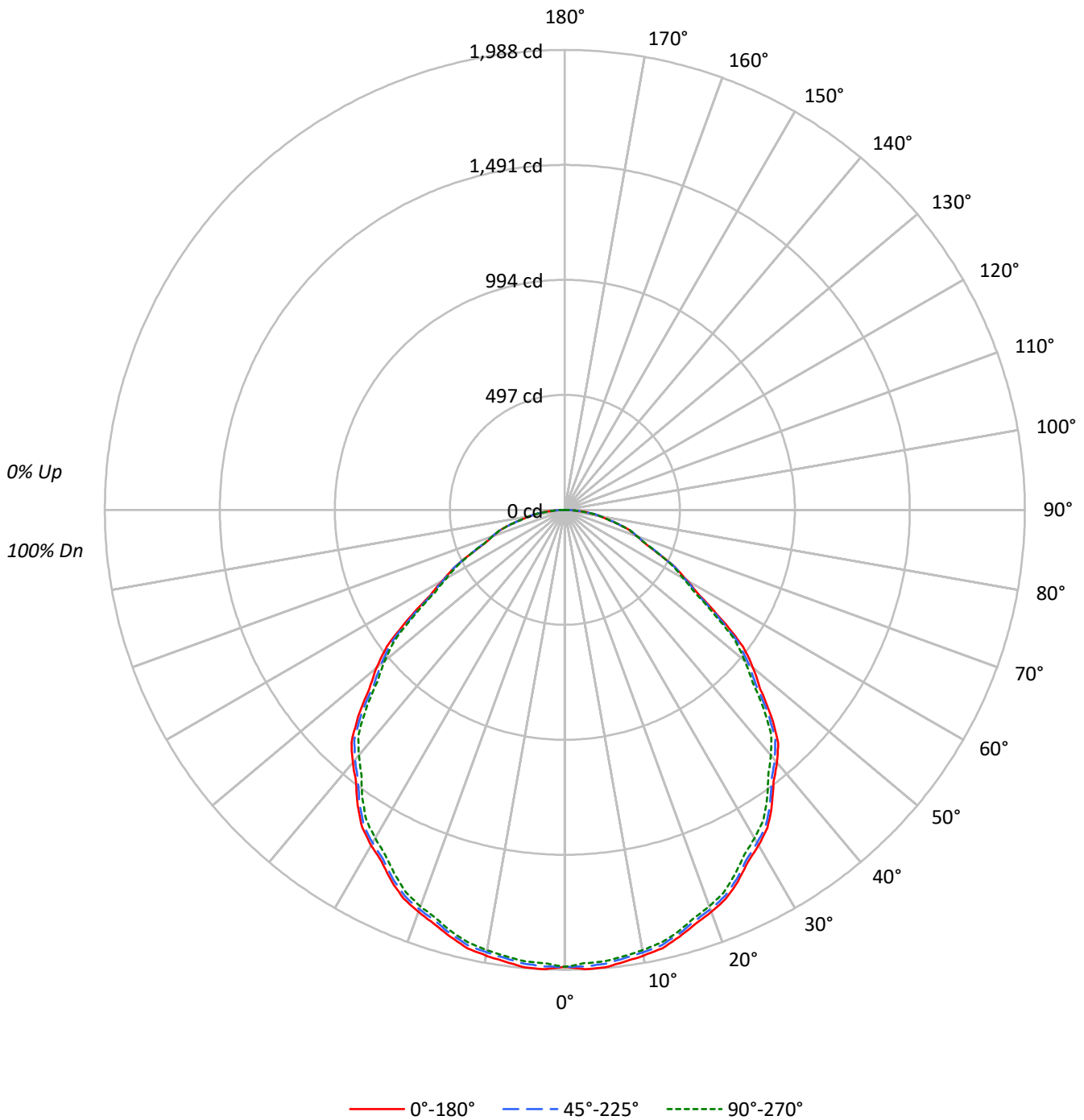
Lumens per Lamp: N/A
Luminaire Lumens: 4938.1 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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°	9112	9112	9112
5°	9194	9123	9076
10°	9165	9102	9054
15°	9125	9068	9020
20°	9079	9021	8954
25°	9015	8954	8850
30°	8918	8855	8727
35°	8786	8710	8585
40°	8586	8494	8340
45°	8236	8092	7925
50°	7620	7437	7289
55°	6651	6500	6363
60°	5604	5557	5447
65°	4848	4866	4829
70°	4452	4475	4475
75°	4276	4276	4306
80°	4022	4067	4022
85°	3245	3604	3604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	3.8
10°-20°	534.4	10.8
20°-30°	806.1	16.3
30°-40°	960.5	19.5
40°-50°	946.9	19.2
50°-60°	723.7	14.7
60°-70°	447.9	9.1
70°-80°	254.4	5.2
80°-90°	77.4	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°	1527.4	30.9
0°-40°	2487.8	50.4
0°-60°	4158.5	84.2
0°-90°	4938.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4938.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1986	1964	1970	1963	1960	188
15°	1911	1891	1899	1892	1889	539
25°	1771	1750	1759	1740	1739	815
35°	1560	1542	1547	1526	1524	974
45°	1262	1246	1240	1218	1215	967
55°	827	814	808	794	791	741
65°	444	441	446	442	442	450
75°	240	240	240	242	242	253
85°	61	65	68	68	68	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.3	1975.3	1975.3	1975.3	1975.3
2.5°	1987.6	1970.3	1975.3	1971.0	1961.7
5°	1985.5	1963.9	1970.2	1963.3	1960.0
7.5°	1970.2	1948.9	1955.3	1948.4	1946.4
10°	1956.6	1936.6	1943.0	1936.1	1932.8
12.5°	1941.6	1920.3	1928.0	1919.8	1916.5
15°	1910.7	1890.7	1898.8	1891.9	1888.6
17.5°	1876.6	1855.4	1863.4	1855.5	1851.1
20°	1849.4	1829.5	1837.5	1825.6	1823.9
22.5°	1819.5	1799.5	1807.6	1791.6	1791.2
25°	1771.2	1749.5	1759.2	1740.5	1738.8
27.5°	1713.7	1693.7	1701.7	1682.6	1680.6
30°	1674.2	1654.2	1662.3	1641.8	1638.4
32.5°	1629.3	1610.6	1617.4	1596.9	1594.9
35°	1560.2	1541.9	1546.6	1526.1	1524.5
37.5°	1481.6	1464.9	1467.6	1445.1	1443.5
40°	1425.8	1409.1	1410.5	1386.6	1384.9
42.5°	1364.5	1347.9	1346.5	1322.6	1321.0
45°	1262.4	1245.8	1240.3	1218.1	1214.8
47.5°	1146.1	1129.4	1119.2	1101.1	1098.8
50°	1061.7	1045.0	1036.2	1020.7	1015.7
52.5°	970.5	953.8	946.3	932.3	927.3
55°	826.9	813.6	808.2	794.5	791.2
57.5°	690.4	681.4	679.9	666.6	665.2
60°	607.4	602.4	602.3	590.4	590.4
62.5°	536.6	533.0	535.6	527.7	526.4
65°	444.1	440.7	445.8	442.4	442.4
67.5°	370.9	370.9	374.0	372.6	372.6
70°	330.1	330.1	331.8	331.8	331.8
72.5°	293.3	292.0	296.4	296.4	295.0
75°	239.9	239.9	239.9	241.6	241.6
77.5°	186.8	187.1	188.5	188.1	186.8
80°	151.4	153.1	153.1	151.4	151.4
82.5°	116.0	117.7	117.7	117.4	116.0
85°	61.3	64.6	68.1	68.1	68.1
87.5°	17.7	23.0	27.2	27.2	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)