

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: P562336

Luminaire Tested: **SQ4-PW1-0U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562336
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-125D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

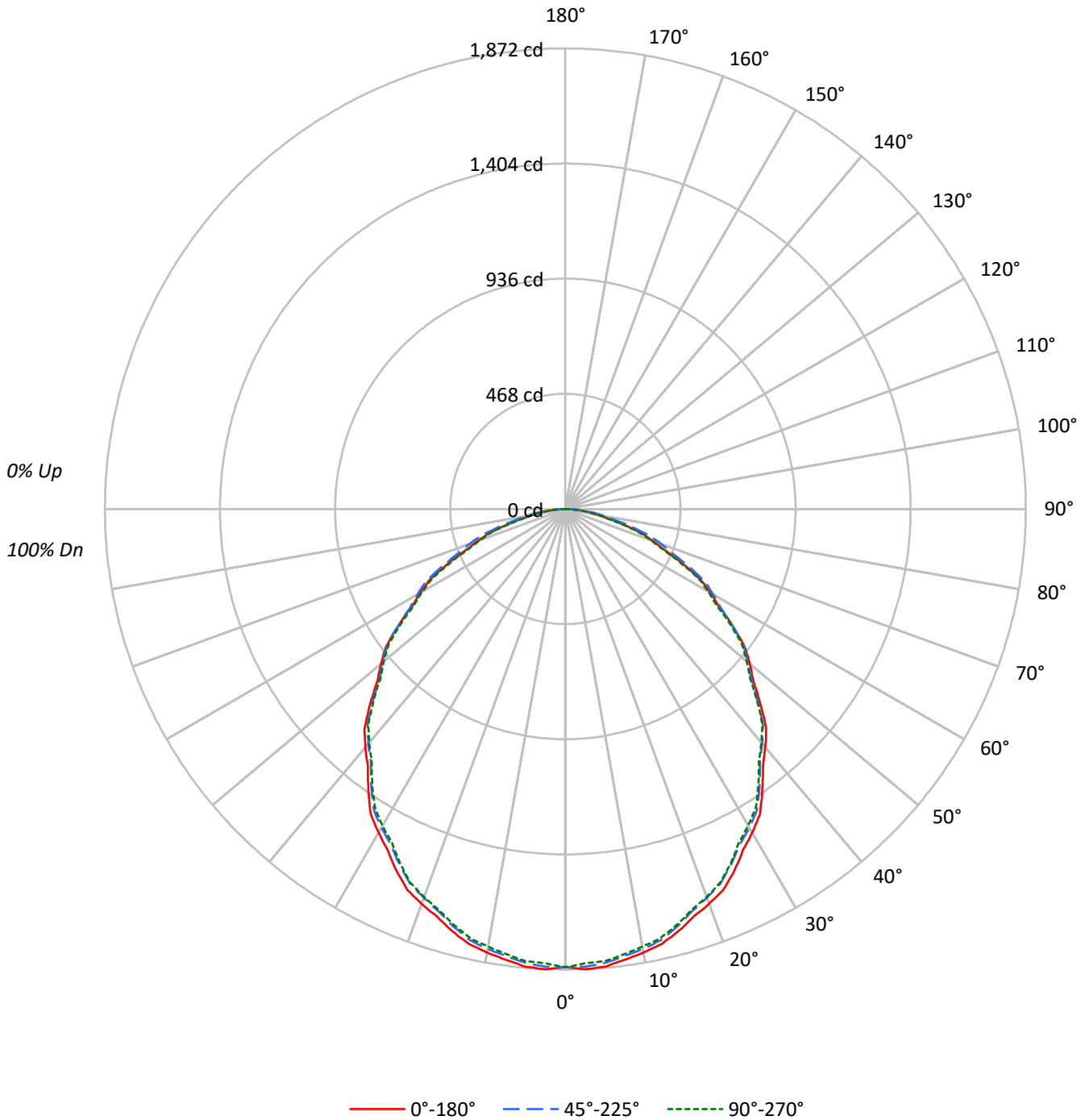
Lumens per Lamp: N/A
Luminaire Lumens: 4737.4 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 55.6
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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17179	17179	17179
5°	17290	17154	17078
10°	17152	17014	16921
15°	16970	16782	16719
20°	16768	16510	16478
25°	16533	16233	16183
30°	16184	15940	15834
35°	15724	15503	15410
40°	15233	14997	14937
45°	14641	14449	14384
50°	14035	13917	13822
55°	13378	13378	13168
60°	12562	12804	12350
65°	11496	12070	11210
70°	10135	11109	9868
75°	8655	9942	8420
80°	6711	8368	6801
85°	4340	6426	5727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	3.7
10°-20°	495.0	10.4
20°-30°	734.3	15.5
30°-40°	859.2	18.1
40°-50°	855.3	18.1
50°-60°	738.6	15.6
60°-70°	531.7	11.2
70°-80°	278.8	5.9
80°-90°	69.1	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°	1404.6	29.7
0°-40°	2263.8	47.8
0°-60°	3857.8	81.4
0°-90°	4737.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4737.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1867	1846	1852	1847	1844	177
15°	1777	1754	1757	1754	1750	501
25°	1624	1597	1595	1585	1590	747
35°	1396	1377	1376	1363	1368	873
45°	1122	1112	1107	1104	1102	866
55°	832	830	832	820	819	742
65°	527	543	553	531	514	522
75°	243	265	279	260	236	260
85°	41	54	61	57	54	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.0	1862.0	1862.0	1862.0	1862.0
2.5°	1872.5	1857.1	1862.0	1857.9	1848.9
5°	1866.9	1846.1	1852.2	1847.2	1844.0
7.5°	1847.9	1828.6	1833.1	1827.8	1825.9
10°	1830.8	1811.6	1816.1	1809.4	1806.2
12.5°	1811.1	1790.6	1795.1	1788.5	1786.5
15°	1776.7	1754.2	1757.0	1753.7	1750.4
17.5°	1736.7	1713.9	1714.4	1709.1	1708.4
20°	1707.8	1683.7	1681.5	1675.1	1678.3
22.5°	1676.3	1650.9	1648.7	1639.6	1644.1
25°	1624.1	1596.9	1594.6	1584.9	1589.7
27.5°	1563.8	1536.8	1536.8	1523.2	1528.3
30°	1519.1	1493.5	1496.2	1479.9	1486.3
32.5°	1471.9	1448.8	1450.2	1434.0	1440.4
35°	1396.1	1376.8	1376.4	1363.4	1368.2
37.5°	1318.7	1301.7	1299.0	1291.5	1292.7
40°	1264.8	1250.4	1245.2	1240.2	1240.2
42.5°	1208.4	1195.3	1190.0	1186.4	1185.1
45°	1122.1	1112.5	1107.4	1104.0	1102.4
47.5°	1036.8	1027.8	1023.4	1021.0	1019.4
50°	977.8	971.3	969.6	964.6	963.0
52.5°	918.7	914.8	913.1	906.8	905.2
55°	831.7	830.1	831.7	820.2	818.6
57.5°	741.2	743.8	749.1	733.6	729.7
60°	680.8	687.2	693.9	675.8	669.3
62.5°	619.1	629.4	638.8	617.9	609.0
65°	526.6	542.6	552.9	531.1	513.5
67.5°	437.4	457.3	469.5	446.1	426.2
70°	375.7	398.1	411.8	388.3	365.8
72.5°	321.9	346.9	358.0	335.8	313.3
75°	242.8	265.3	278.9	260.3	236.2
77.5°	172.3	193.4	204.7	188.5	168.6
80°	126.3	148.8	157.5	144.0	128.0
82.5°	89.6	108.2	114.2	106.1	95.2
85°	41.0	53.8	60.7	57.3	54.1
87.5°	10.5	19.5	24.9	25.0	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)