

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: P523663

Luminaire Tested: **SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523663
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

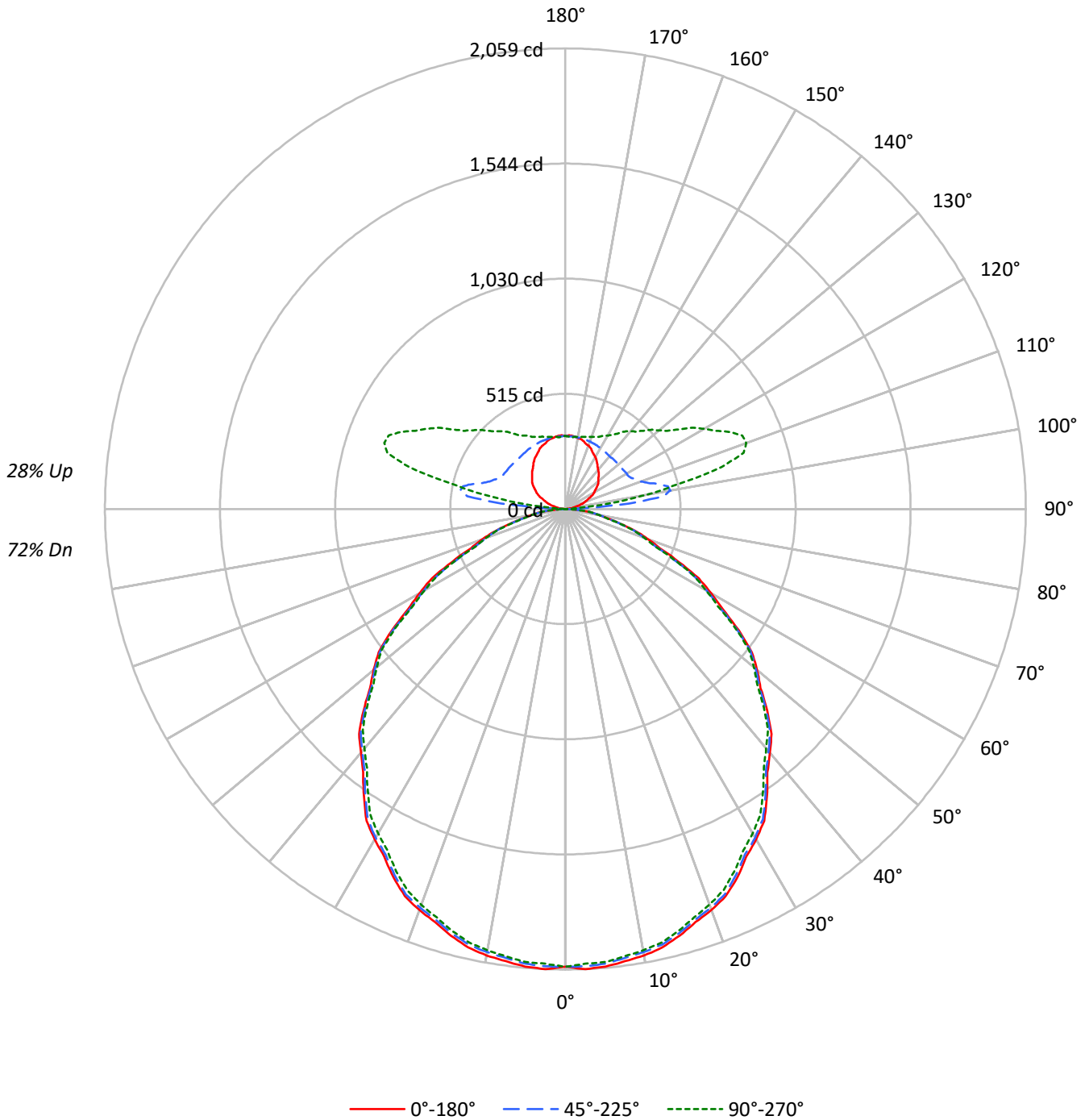
Lumens per Lamp: N/A
Luminaire Lumens: 7263.6 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.7
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



TEST NUMBER: P523663
CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P523663

CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65	61
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	52
3	86	76	69	63	81	73	66	60	66	60	56	59	55	52	54	50	47	44
4	79	68	60	53	74	65	57	52	59	53	48	53	48	44	48	44	41	38
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	33
6	67	54	46	40	63	52	44	39	48	41	36	43	38	34	39	35	32	29
7	62	49	41	35	59	47	40	34	43	37	32	39	34	30	36	31	28	26
8	58	45	37	31	55	43	36	31	39	33	29	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23	21
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18880	18880	18880
5°	19018	18902	18836
10°	18986	18852	18768
15°	18861	18758	18655
20°	18735	18630	18489
25°	18513	18385	18203
30°	18171	18075	17846
35°	17695	17574	17352
40°	17129	17021	16827
45°	16661	16545	16380
50°	16063	15960	15806
55°	15231	15030	14914
60°	13867	13468	13402
65°	12217	11706	11667
70°	10547	10110	10110
75°	9079	8951	8823
80°	8002	8097	7911
85°	6267	6838	6838



TEST NUMBER: P523663

CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	2.7
10°-20°	552.5	7.6
20°-30°	827.6	11.4
30°-40°	970.7	13.4
40°-50°	973.7	13.4
50°-60°	830.7	11.4
60°-70°	541.7	7.5
70°-80°	271.8	3.7
80°-90°	75.2	1.0
90°-100°	148.6	2.0
100°-110°	422.9	5.8
110°-120°	405.2	5.6
120°-130°	320.7	4.4
130°-140°	257.4	3.5
140°-150°	201.5	2.8
150°-160°	147.4	2.0
160°-170°	91.3	1.3
170°-180°	31.0	0.4
0°-30°	1573.6	21.7
0°-40°	2544.3	35.0
0°-60°	4348.7	59.9
0°-90°	5237.4	72.1
90°-120°	976.8	13.4
90°-150°	1756.4	24.2
90°-180°	2026.0	27.9
0°-180°	7263.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	2054	2034	2041	2034	2034	195
15°	1975	1955	1964	1957	1953	557
25°	1819	1798	1806	1790	1788	836
35°	1571	1555	1560	1542	1541	981
45°	1277	1268	1268	1255	1255	983
55°	947	943	934	929	927	842
65°	560	549	536	533	534	558
75°	255	255	251	249	248	276
85°	59	64	65	65	65	70
90°	0	0	0	0	0	3
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

TEST NUMBER: P523663

CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2046.3	2046.3	2046.3	2046.3	2046.3
2.5°	2059.2	2042.4	2046.3	2043.3	2034.8
5°	2053.5	2034.2	2040.9	2033.8	2033.8
7.5°	2039.5	2018.5	2025.2	2018.0	2017.6
10°	2026.6	2005.6	2012.3	2005.0	2003.3
12.5°	2007.9	1986.9	1995.0	1986.4	1986.1
15°	1974.6	1955.3	1963.8	1956.6	1953.1
17.5°	1936.9	1915.9	1926.2	1916.1	1914.7
20°	1908.2	1887.2	1897.5	1883.1	1883.1
22.5°	1873.8	1852.8	1864.5	1845.8	1845.8
25°	1818.6	1797.5	1806.0	1789.8	1788.1
27.5°	1752.9	1732.2	1741.1	1722.8	1722.4
30°	1705.6	1686.3	1696.6	1676.8	1675.1
32.5°	1653.9	1636.0	1643.5	1623.7	1622.0
35°	1571.1	1555.3	1560.3	1542.3	1540.6
37.5°	1483.9	1467.8	1473.5	1458.1	1457.4
40°	1422.2	1411.7	1413.2	1400.6	1397.1
42.5°	1364.8	1352.9	1354.4	1341.8	1341.1
45°	1276.9	1268.2	1268.0	1255.4	1255.4
47.5°	1183.7	1177.0	1175.1	1164.7	1164.3
50°	1119.1	1113.9	1111.9	1102.9	1101.2
52.5°	1051.7	1049.2	1043.1	1035.5	1035.2
55°	946.9	943.4	934.4	929.0	927.2
57.5°	833.2	826.2	816.0	808.2	809.6
60°	751.5	744.4	729.9	726.3	726.3
62.5°	672.5	664.1	649.6	644.6	647.4
65°	559.6	549.0	536.2	532.7	534.4
67.5°	457.0	447.5	433.7	433.6	432.2
70°	391.0	385.7	374.8	374.8	374.8
72.5°	332.1	329.7	321.7	321.7	320.3
75°	254.7	254.7	251.1	249.2	247.5
77.5°	190.8	191.5	189.7	187.9	184.7
80°	150.6	154.2	152.4	150.6	148.9
82.5°	113.3	116.9	116.6	113.3	113.0
85°	59.2	64.4	64.6	64.6	64.6
87.5°	15.8	21.4	23.0	23.0	24.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

TEST NUMBER: P523663

CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)