

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: P523767

Luminaire Tested: **SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523767
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-PP3-075U-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 750 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: 8655.6 lumens
Efficiency: N/A
Efficacy: 109.2 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

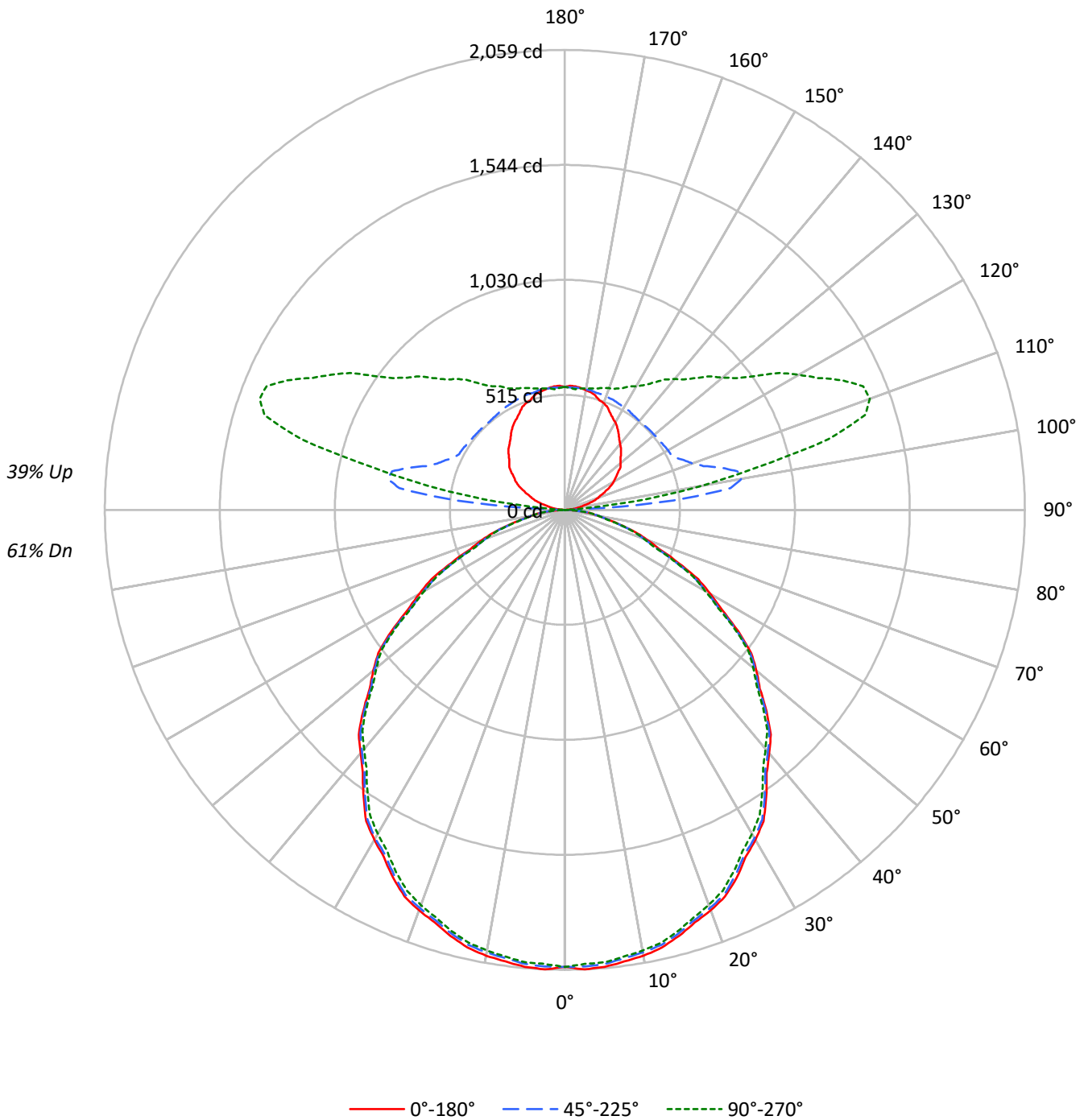
Input Watts (W): 79.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	50	48	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	70	59	51	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	20	18	16

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	2.2
10°-20°	552.5	6.4
20°-30°	827.6	9.6
30°-40°	970.7	11.2
40°-50°	973.7	11.2
50°-60°	830.7	9.6
60°-70°	541.7	6.3
70°-80°	271.8	3.1
80°-90°	75.2	0.9
90°-100°	250.8	2.9
100°-110°	713.5	8.2
110°-120°	683.6	7.9
120°-130°	541.0	6.3
130°-140°	434.3	5.0
140°-150°	340.0	3.9
150°-160°	248.8	2.9
160°-170°	154.1	1.8
170°-180°	52.3	0.6
0°-30°	1573.6	18.2
0°-40°	2544.3	29.4
0°-60°	4348.7	50.2
0°-90°	5237.4	60.5
90°-120°	1647.8	19.0
90°-150°	2963.1	34.2
90°-180°	3418.0	39.5
0°-180°	8655.6	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°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	

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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°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)