

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: P561562

Luminaire Tested: **SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561562
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8829.7 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

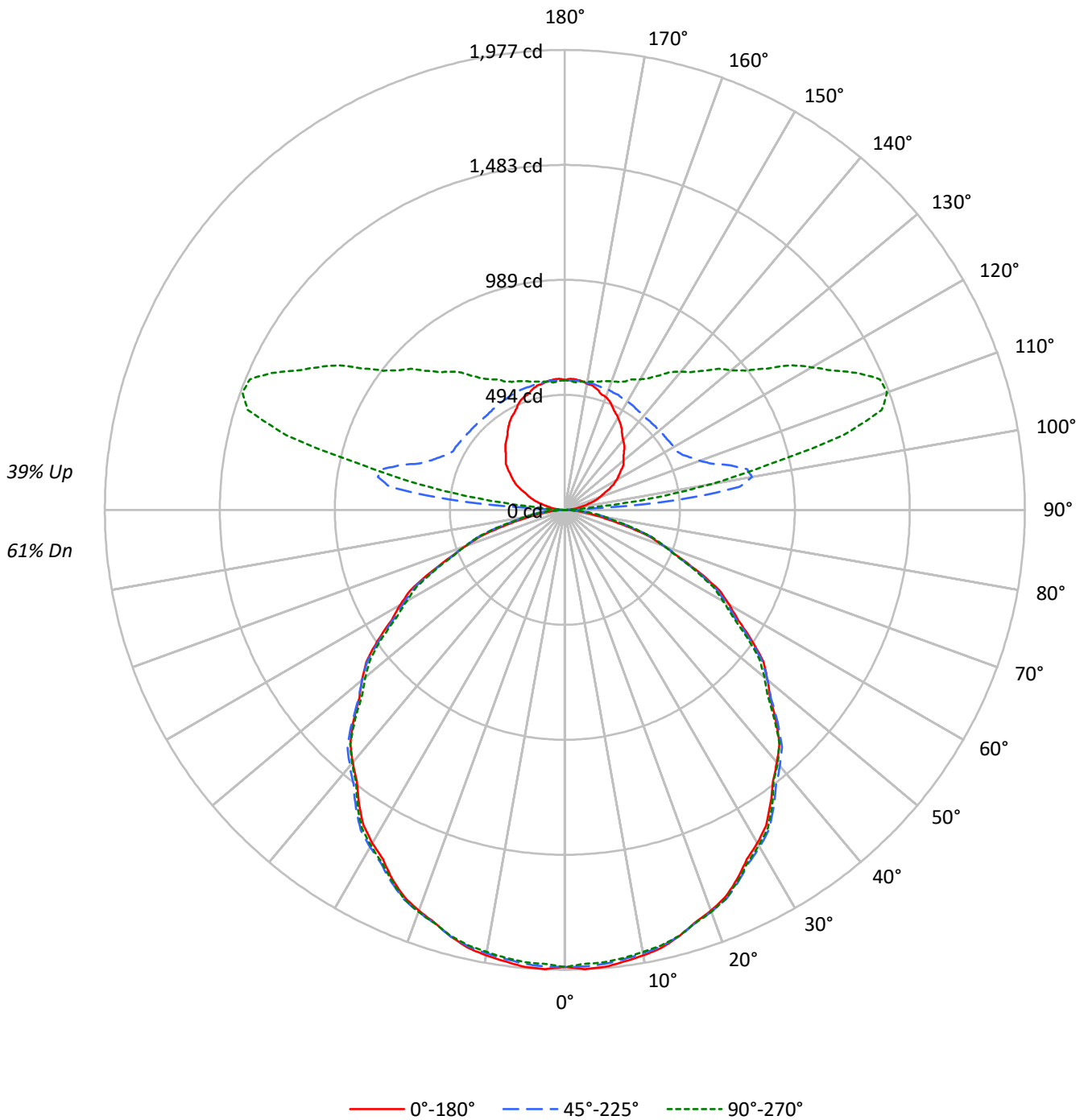
Input Watts (W): 79.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18129	18129	18129
5°	18266	18148	18080
10°	18222	18137	18085
15°	18126	18126	18108
20°	18007	18060	18060
25°	17836	17966	17911
30°	17620	17833	17755
35°	17358	17623	17501
40°	17070	17311	17136
45°	16760	16879	16618
50°	16321	16321	16060
55°	15804	15600	15365
60°	15041	14738	14504
65°	13902	13625	13505
70°	12171	12271	12220
75°	9792	10830	10897
80°	6960	9181	9282
85°	4234	7707	7707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	2.1
10°-20°	533.7	6.0
20°-30°	808.2	9.2
30°-40°	968.9	11.0
40°-50°	987.9	11.2
50°-60°	862.4	9.8
60°-70°	617.4	7.0
70°-80°	318.0	3.6
80°-90°	80.4	0.9
90°-100°	254.3	2.9
100°-110°	723.6	8.2
110°-120°	693.3	7.9
120°-130°	548.7	6.2
130°-140°	440.5	5.0
140°-150°	344.8	3.9
150°-160°	252.3	2.9
160°-170°	156.3	1.8
170°-180°	53.0	0.6
0°-30°	1527.8	17.3
0°-40°	2496.7	28.3
0°-60°	4347.0	49.2
0°-90°	5362.8	60.7
90°-120°	1671.3	18.9
90°-150°	3005.3	34.0
90°-180°	3467.0	39.3
0°-180°	8829.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1972	1953	1960	1954	1952	187
15°	1898	1882	1898	1898	1896	535
25°	1752	1740	1765	1759	1759	806
35°	1541	1538	1565	1554	1554	964
45°	1284	1281	1294	1277	1274	989
55°	982	970	970	955	955	876
65°	637	623	624	619	619	630
75°	275	287	304	306	306	297
85°	40	61	73	75	73	54
90°	0	0	0	0	0	3
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

TEST NUMBER: P561562

CATALOG NUMBER: SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.0	1965.0	1965.0	1965.0	1965.0
2.5°	1976.6	1959.5	1965.0	1960.5	1953.3
5°	1972.3	1952.7	1959.5	1954.0	1952.2
7.5°	1958.1	1938.5	1947.5	1943.8	1942.1
10°	1945.0	1925.4	1935.9	1932.2	1930.4
12.5°	1927.5	1909.4	1921.3	1917.7	1917.3
15°	1897.7	1881.7	1897.7	1897.6	1895.8
17.5°	1860.2	1845.6	1862.7	1863.8	1862.7
20°	1834.0	1818.0	1839.4	1837.7	1839.4
22.5°	1802.0	1788.8	1811.8	1807.1	1808.9
25°	1752.1	1739.7	1764.8	1759.4	1759.4
27.5°	1693.2	1684.3	1711.7	1705.9	1705.9
30°	1653.9	1645.0	1673.9	1666.6	1666.6
32.5°	1610.2	1604.1	1631.7	1622.9	1622.9
35°	1541.1	1537.5	1564.7	1553.8	1553.8
37.5°	1469.7	1466.5	1491.2	1478.0	1473.7
40°	1417.3	1415.6	1437.3	1422.8	1422.8
42.5°	1364.9	1363.2	1382.0	1364.6	1364.6
45°	1284.5	1281.0	1293.6	1277.2	1273.6
47.5°	1196.8	1193.3	1201.2	1183.3	1181.5
50°	1137.1	1133.6	1137.1	1120.7	1118.9
52.5°	1076.0	1069.6	1070.2	1053.8	1053.4
55°	982.5	970.0	969.8	955.2	955.2
57.5°	883.5	867.1	868.6	856.2	854.4
60°	815.1	797.3	798.7	787.8	786.0
62.5°	748.1	727.5	731.8	719.4	719.0
65°	636.8	622.6	624.1	618.6	618.6
67.5°	529.8	516.7	526.2	521.8	521.4
70°	451.2	442.3	454.9	454.8	453.0
72.5°	378.4	378.1	393.7	393.7	394.8
75°	274.7	287.2	303.8	305.7	305.7
77.5°	183.4	205.5	223.8	224.5	224.2
80°	131.0	155.9	172.8	176.4	174.7
82.5°	88.8	115.1	129.2	132.8	131.0
85°	40.0	61.4	72.8	74.6	72.8
87.5°	11.6	24.5	29.1	29.0	26.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8

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CATALOG NUMBER: SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)