

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: P523769

Luminaire Tested: **SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523769
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8862.2 lumens
Efficiency: N/A
Efficacy: 112.3 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

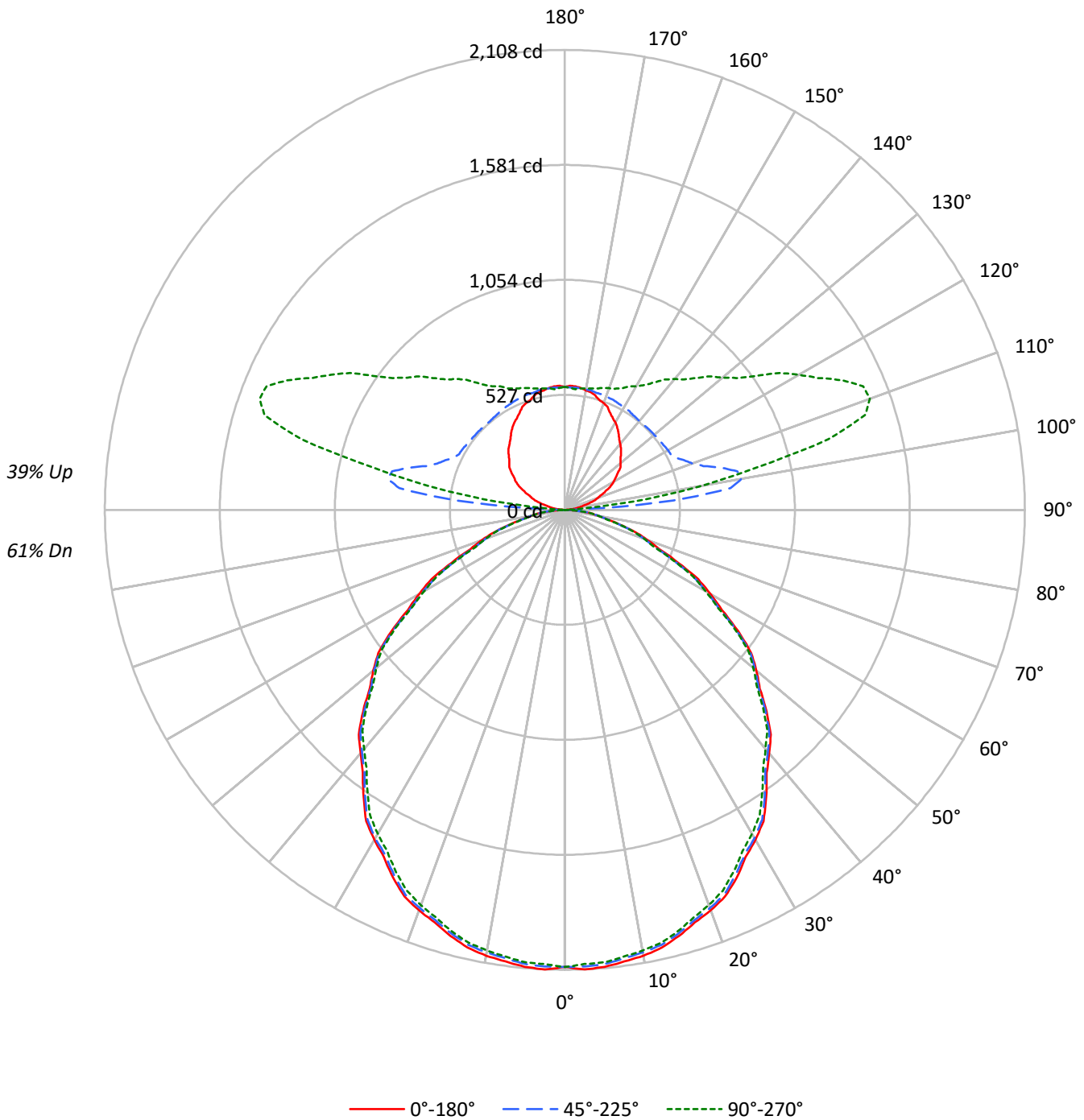
Input Watts (W): 78.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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°	19331	19331	19331
5°	19472	19353	19285
10°	19440	19302	19216
15°	19311	19206	19100
20°	19183	19074	18931
25°	18955	18824	18637
30°	18604	18506	18272
35°	18117	17993	17765
40°	17537	17428	17228
45°	17059	16939	16772
50°	16446	16341	16183
55°	15595	15389	15270
60°	14197	13791	13723
65°	12507	11985	11946
70°	10798	10353	10353
75°	9293	9165	9033
80°	8193	8294	8097
85°	6415	6997	6997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	2.2
10°-20°	565.7	6.4
20°-30°	847.3	9.6
30°-40°	993.9	11.2
40°-50°	997.0	11.2
50°-60°	850.5	9.6
60°-70°	554.7	6.3
70°-80°	278.3	3.1
80°-90°	77.0	0.9
90°-100°	256.7	2.9
100°-110°	730.5	8.2
110°-120°	699.9	7.9
120°-130°	553.9	6.3
130°-140°	444.6	5.0
140°-150°	348.1	3.9
150°-160°	254.7	2.9
160°-170°	157.8	1.8
170°-180°	53.5	0.6
0°-30°	1611.1	18.2
0°-40°	2605.0	29.4
0°-60°	4452.5	50.2
0°-90°	5362.4	60.5
90°-120°	1687.1	19.0
90°-150°	3033.8	34.2
90°-180°	3500.0	39.5
0°-180°	8862.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2095	2095	2095	2095	2095	
5°	2102	2083	2090	2082	2082	200
15°	2022	2002	2011	2003	2000	570
25°	1862	1840	1849	1832	1831	856
35°	1608	1592	1598	1579	1577	1005
45°	1307	1298	1298	1285	1285	1007
55°	970	966	957	951	949	862
65°	573	562	549	545	547	572
75°	261	261	257	255	253	283
85°	61	66	66	66	66	71
90°	0	0	0	0	0	3
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2095.2	2095.2	2095.2	2095.2	2095.2
2.5°	2108.4	2091.1	2095.2	2092.0	2083.4
5°	2102.5	2082.7	2089.6	2082.3	2082.3
7.5°	2088.2	2066.6	2073.5	2066.1	2065.8
10°	2075.0	2053.4	2060.3	2052.9	2051.1
12.5°	2055.9	2034.3	2042.6	2033.8	2033.5
15°	2021.7	2002.0	2010.7	2003.3	1999.7
17.5°	1983.1	1961.6	1972.1	1961.8	1960.4
20°	1953.8	1932.2	1942.7	1928.1	1928.1
22.5°	1918.5	1897.0	1909.0	1889.9	1889.9
25°	1862.0	1840.4	1849.1	1832.5	1830.7
27.5°	1794.7	1773.6	1782.6	1763.9	1763.5
30°	1746.3	1726.5	1737.1	1716.8	1715.1
32.5°	1693.4	1675.1	1682.7	1662.5	1660.7
35°	1608.5	1592.4	1597.5	1579.1	1577.3
37.5°	1519.3	1502.8	1508.7	1492.9	1492.1
40°	1456.1	1445.4	1447.0	1434.0	1430.4
42.5°	1397.4	1385.2	1386.7	1373.9	1373.1
45°	1307.4	1298.4	1298.2	1285.4	1285.4
47.5°	1211.9	1205.1	1203.1	1192.4	1192.1
50°	1145.8	1140.4	1138.5	1129.2	1127.5
52.5°	1076.8	1074.3	1068.0	1060.2	1059.9
55°	969.5	965.9	956.7	951.1	949.3
57.5°	853.1	845.9	835.5	827.4	828.9
60°	769.4	762.2	747.4	743.7	743.7
62.5°	688.6	680.0	665.1	660.0	662.9
65°	572.9	562.1	549.0	545.4	547.2
67.5°	467.9	458.2	444.0	444.0	442.5
70°	400.3	394.9	383.8	383.8	383.8
72.5°	340.1	337.6	329.4	329.4	328.0
75°	260.7	260.7	257.1	255.2	253.4
77.5°	195.4	196.1	194.3	192.4	189.1
80°	154.2	157.8	156.1	154.2	152.4
82.5°	116.1	119.6	119.4	116.0	115.7
85°	60.6	66.0	66.1	66.1	66.1
87.5°	16.2	21.9	23.5	23.5	25.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)