

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: P561686

Luminaire Tested: **SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561686
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-PC3-125U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

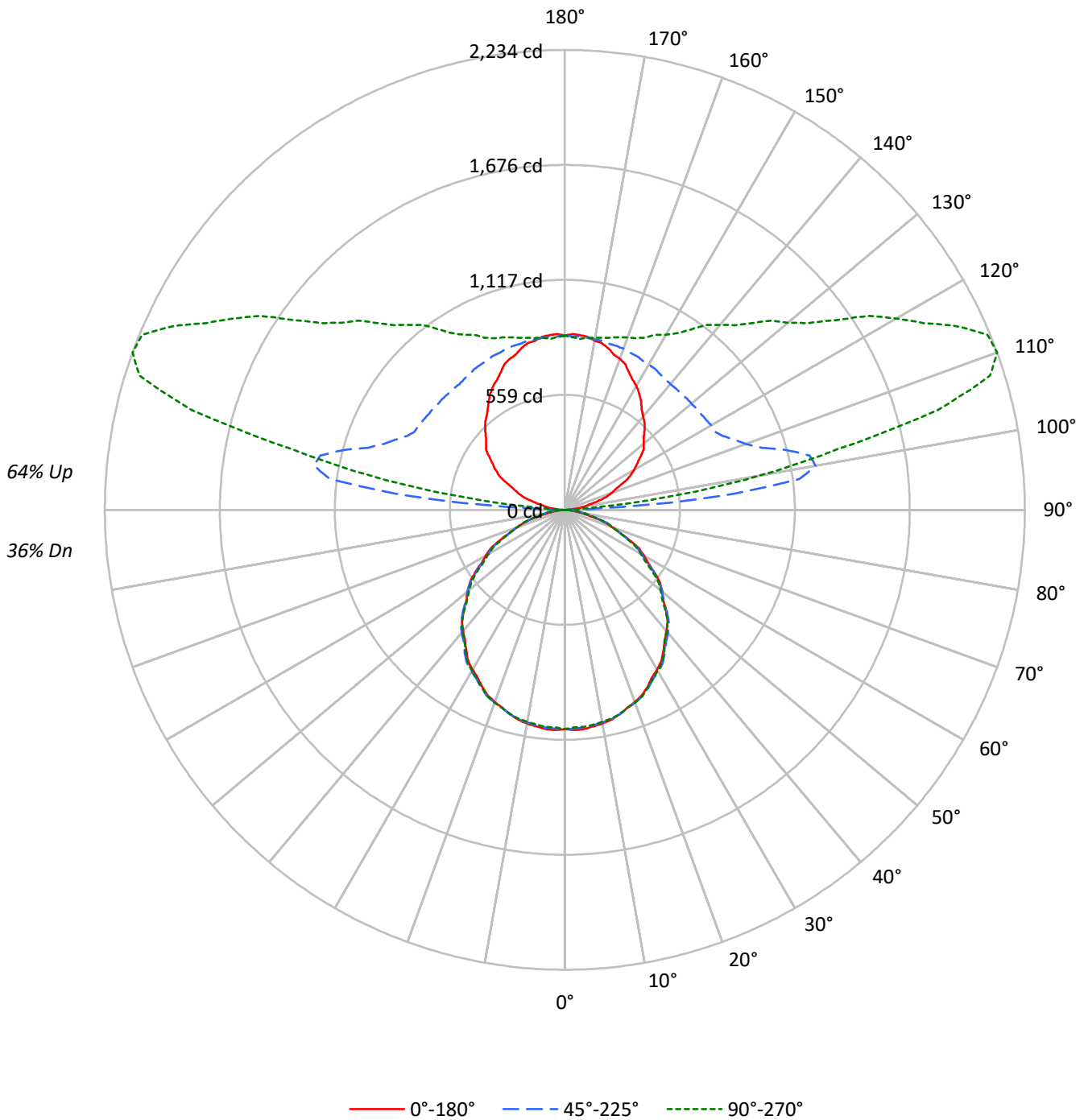
Lumens per Lamp: N/A
Luminaire Lumens: 8159.6 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.2
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	31	25
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9821	9821	9821
5°	9896	9832	9795
10°	9872	9826	9798
15°	9820	9820	9811
20°	9755	9784	9784
25°	9663	9733	9704
30°	9546	9661	9619
35°	9404	9548	9481
40°	9249	9379	9283
45°	9080	9144	9003
50°	8843	8843	8701
55°	8562	8451	8324
60°	8149	7984	7857
65°	7532	7381	7316
70°	6596	6647	6620
75°	5304	5868	5903
80°	3772	4973	5026
85°	2297	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.2
10°-20°	289.1	3.5
20°-30°	437.8	5.4
30°-40°	524.9	6.4
40°-50°	535.2	6.6
50°-60°	467.2	5.7
60°-70°	334.5	4.1
70°-80°	172.3	2.1
80°-90°	43.6	0.5
90°-100°	385.4	4.7
100°-110°	1096.7	13.4
110°-120°	1050.8	12.9
120°-130°	831.6	10.2
130°-140°	667.5	8.2
140°-150°	522.6	6.4
150°-160°	382.4	4.7
160°-170°	236.8	2.9
170°-180°	80.4	1.0
0°-30°	827.7	10.1
0°-40°	1352.6	16.6
0°-60°	2355.1	28.9
0°-90°	2905.4	35.6
90°-120°	2532.9	31.0
90°-150°	4554.7	55.8
90°-180°	5254.0	64.4
0°-180°	8159.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1068	1058	1062	1059	1058	101
15°	1028	1019	1028	1028	1027	290
25°	949	942	956	953	953	437
35°	835	833	848	842	842	522
45°	696	694	701	692	690	536
55°	532	526	525	518	518	475
65°	345	337	338	335	335	341
75°	149	156	165	166	166	161
85°	22	33	39	40	39	29
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

TEST NUMBER: P561686

CATALOG NUMBER: SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1070.9	1061.6	1064.5	1062.1	1058.2
5°	1068.5	1057.9	1061.6	1058.6	1057.6
7.5°	1060.8	1050.2	1055.1	1053.1	1052.1
10°	1053.7	1043.1	1048.8	1046.8	1045.8
12.5°	1044.2	1034.4	1040.9	1038.9	1038.7
15°	1028.1	1019.4	1028.1	1028.1	1027.1
17.5°	1007.8	999.9	1009.2	1009.7	1009.2
20°	993.6	984.9	996.5	995.6	996.5
22.5°	976.2	969.1	981.6	979.0	980.0
25°	949.2	942.5	956.1	953.2	953.2
27.5°	917.3	912.5	927.3	924.2	924.2
30°	896.0	891.2	906.8	902.9	902.9
32.5°	872.3	869.1	884.0	879.2	879.2
35°	834.9	833.0	847.7	841.8	841.8
37.5°	796.2	794.5	807.9	800.7	798.4
40°	767.9	766.9	778.7	770.8	770.8
42.5°	739.5	738.5	748.7	739.3	739.3
45°	695.9	694.0	700.8	691.9	690.0
47.5°	648.4	646.5	650.8	641.1	640.1
50°	616.1	614.1	616.1	607.2	606.2
52.5°	582.9	579.5	579.8	570.9	570.7
55°	532.3	525.5	525.4	517.5	517.5
57.5°	478.7	469.8	470.6	463.8	462.9
60°	441.6	432.0	432.7	426.8	425.8
62.5°	405.3	394.1	396.4	389.7	389.5
65°	345.0	337.3	338.1	335.1	335.1
67.5°	287.0	279.9	285.1	282.7	282.5
70°	244.5	239.6	246.4	246.4	245.4
72.5°	205.0	204.8	213.3	213.3	213.9
75°	148.8	155.6	164.6	165.6	165.6
77.5°	99.4	111.3	121.2	121.6	121.4
80°	71.0	84.5	93.6	95.6	94.6
82.5°	48.1	62.4	70.0	71.9	71.0
85°	21.7	33.3	39.4	40.4	39.4
87.5°	6.3	13.2	15.8	15.7	14.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)