

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: P561537

Luminaire Tested: **SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561537
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-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 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

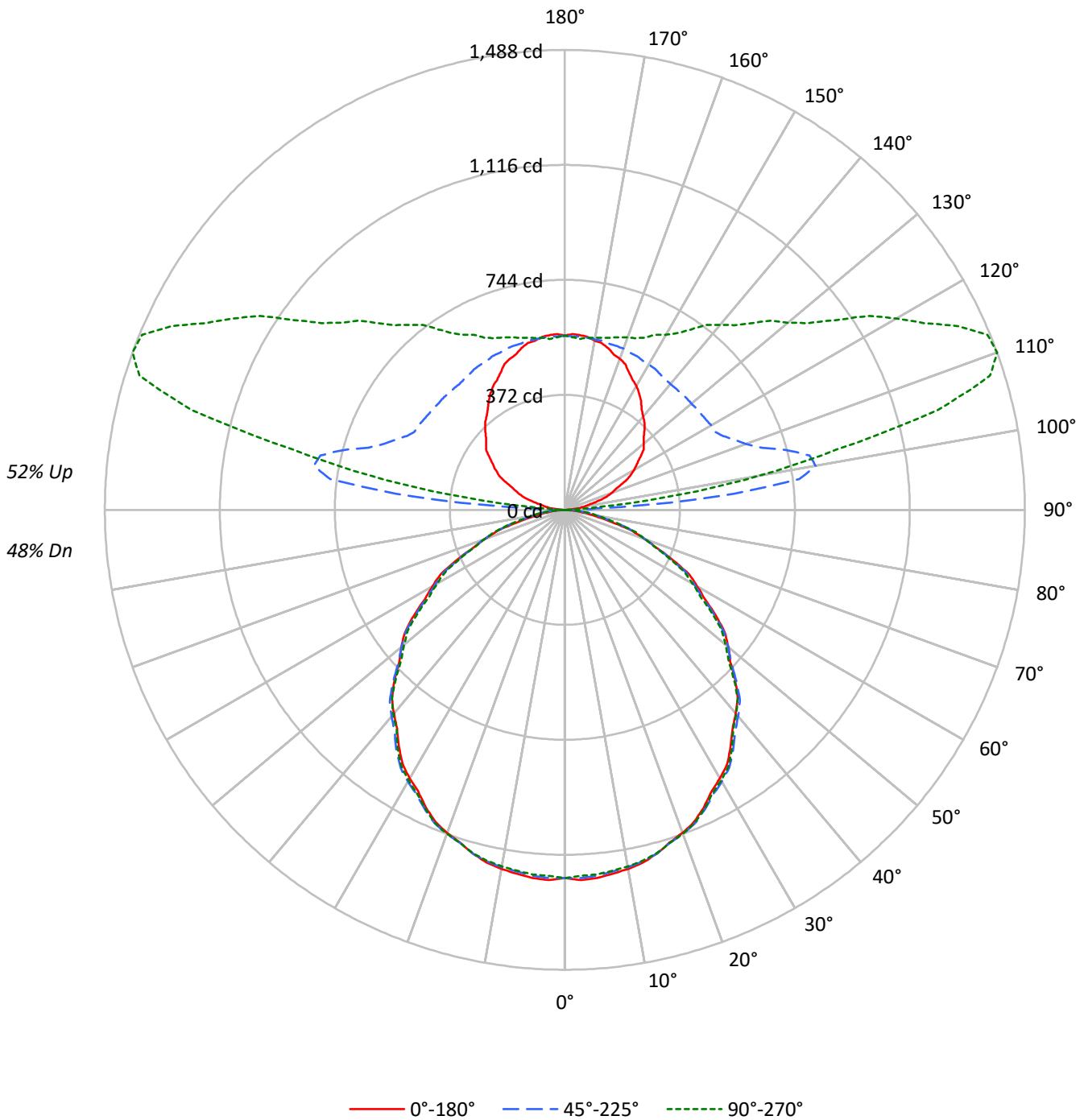
Lumens per Lamp: N/A
Luminaire Lumens: 6752.5 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.2
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



TEST NUMBER: P561537
CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P561537

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (6500K)

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10996	10996	10996
5°	11079	11007	10966
10°	11052	11001	10970
15°	10994	10994	10983
20°	10922	10954	10954
25°	10818	10897	10863
30°	10687	10816	10769
35°	10528	10690	10614
40°	10354	10500	10394
45°	10166	10237	10079
50°	9900	9900	9742
55°	9585	9461	9320
60°	9123	8940	8796
65°	8431	8263	8191
70°	7383	7443	7413
75°	5939	6570	6609
80°	4224	5568	5627
85°	2572	4668	4668



TEST NUMBER: P561537

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	1.7
10°-20°	323.7	4.8
20°-30°	490.2	7.3
30°-40°	587.7	8.7
40°-50°	599.2	8.9
50°-60°	523.1	7.7
60°-70°	374.5	5.5
70°-80°	192.9	2.9
80°-90°	48.8	0.7
90°-100°	256.7	3.8
100°-110°	730.5	10.8
110°-120°	699.9	10.4
120°-130°	553.9	8.2
130°-140°	444.6	6.6
140°-150°	348.1	5.2
150°-160°	254.7	3.8
160°-170°	157.8	2.3
170°-180°	53.5	0.8
0°-30°	926.7	13.7
0°-40°	1514.3	22.4
0°-60°	2636.6	39.0
0°-90°	3252.8	48.2
90°-120°	1687.1	25.0
90°-150°	3033.8	44.9
90°-180°	3500.0	51.8
0°-180°	6752.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1196	1184	1188	1185	1184	114
15°	1151	1141	1151	1151	1150	325
25°	1063	1055	1070	1067	1067	489
35°	935	932	949	942	942	585
45°	779	777	785	775	772	600
55°	596	588	588	579	579	531
65°	386	378	378	375	375	382
75°	167	174	184	185	185	180
85°	24	37	44	45	44	33
90°	0	0	0	0	0	2
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	

TEST NUMBER: P561537

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1198.9	1188.5	1191.8	1189.1	1184.8
5°	1196.2	1184.4	1188.5	1185.2	1184.1
7.5°	1187.6	1175.8	1181.2	1179.0	1177.9
10°	1179.7	1167.8	1174.2	1171.9	1170.9
12.5°	1169.1	1158.1	1165.3	1163.1	1162.9
15°	1151.0	1141.3	1151.0	1151.0	1149.9
17.5°	1128.3	1119.4	1129.8	1130.5	1129.8
20°	1112.4	1102.7	1115.7	1114.6	1115.7
22.5°	1093.0	1085.0	1098.9	1096.1	1097.1
25°	1062.7	1055.2	1070.4	1067.1	1067.1
27.5°	1027.0	1021.6	1038.2	1034.7	1034.7
30°	1003.1	997.7	1015.3	1010.8	1010.8
32.5°	976.6	973.0	989.7	984.4	984.4
35°	934.7	932.5	949.1	942.4	942.4
37.5°	891.4	889.5	904.5	896.5	893.9
40°	859.7	858.6	871.8	863.0	863.0
42.5°	827.9	826.8	838.3	827.7	827.7
45°	779.1	776.9	784.6	774.6	772.5
47.5°	725.9	723.8	728.6	717.7	716.6
50°	689.7	687.6	689.7	679.8	678.7
52.5°	652.6	648.8	649.1	639.2	639.0
55°	595.9	588.4	588.2	579.4	579.4
57.5°	535.9	526.0	526.8	519.3	518.2
60°	494.4	483.6	484.5	477.8	476.7
62.5°	453.8	441.3	443.8	436.3	436.1
65°	386.2	377.6	378.5	375.2	375.2
67.5°	321.4	313.4	319.1	316.5	316.3
70°	273.7	268.3	275.9	275.9	274.8
72.5°	229.5	229.3	238.8	238.8	239.5
75°	166.6	174.2	184.3	185.4	185.4
77.5°	111.2	124.6	135.7	136.2	136.0
80°	79.5	94.6	104.8	107.0	105.9
82.5°	53.9	69.8	78.4	80.5	79.5
85°	24.3	37.2	44.1	45.2	44.1
87.5°	7.1	14.8	17.7	17.6	15.9
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

TEST NUMBER: P561537

CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (6500K)

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)