

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845159

Luminaire Tested: **SQ4P-PR1-050U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845159
REPORT IS A COMBINATION OF REPORTS P700204 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-050U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

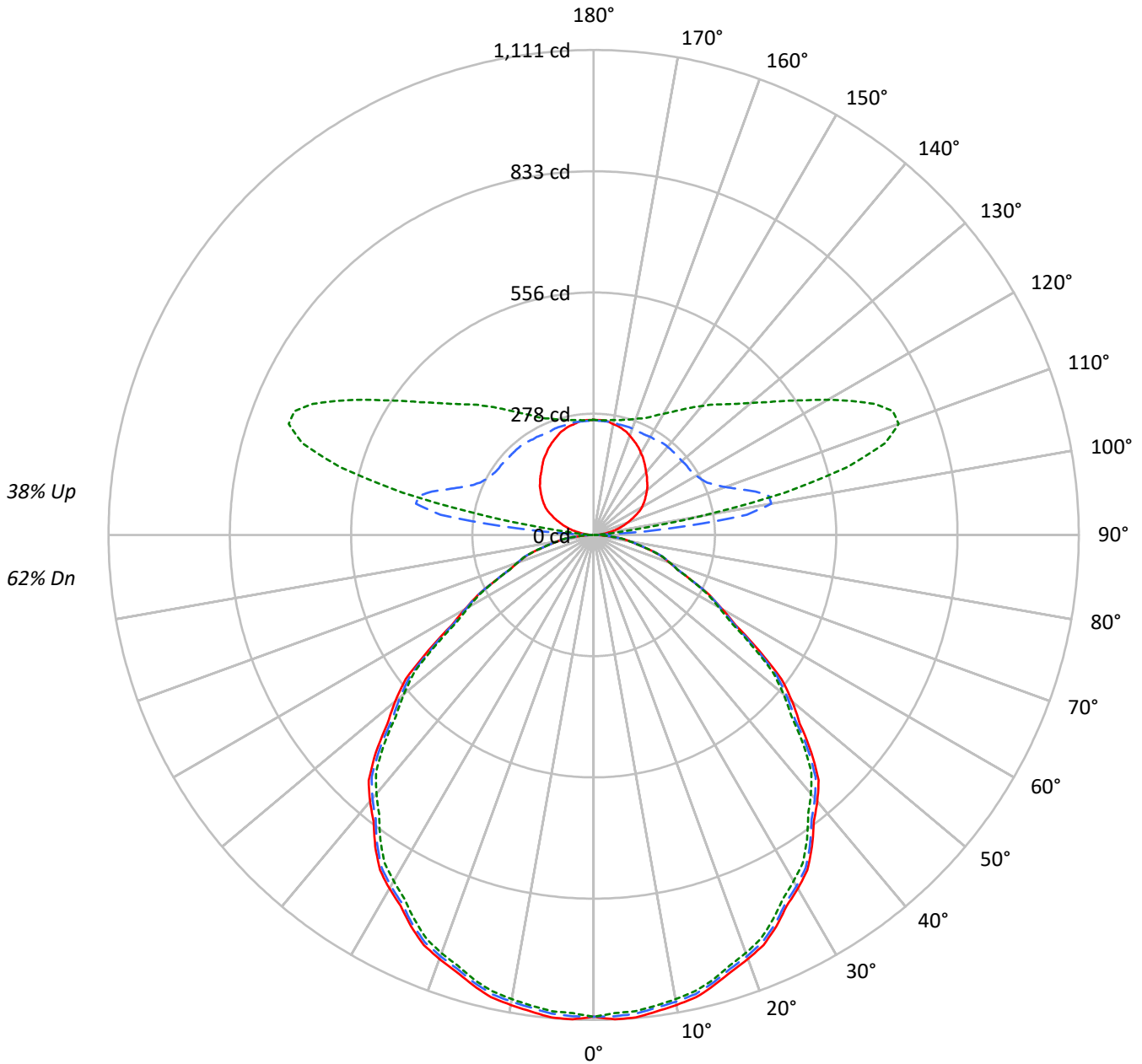
Lumens per Lamp: N/A
Luminaire Lumens: 4470.4 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.6
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P845159

CATALOG NUMBER: SQ4P-PR1-050U-075D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845159

CATALOG NUMBER: SQ4P-PR1-050U-075D-B35-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62																			
1	101	96	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53																			
2	92	85	79	73	86	80	74	70	70	66	62	61	58	55	53	51	49	45																			
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38																			
4	77	66	59	52	72	63	56	50	55	50	45	49	44	41	42	39	36	33																			
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29																			
6	66	53	45	39	61	50	43	38	45	39	35	40	35	31	35	31	28	25																			
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23																			
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20																			
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18																			
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10184	10184	10184
5°	10276	10198	10144
10°	10244	10172	10118
15°	10199	10135	10080
20°	10148	10081	10008
25°	10075	10009	9892
30°	9966	9897	9754
35°	9820	9735	9595
40°	9595	9492	9321
45°	9205	9043	8857
50°	8516	8311	8147
55°	7431	7266	7113
60°	6265	6211	6087
65°	5418	5438	5397
70°	4974	4999	4999
75°	4780	4780	4812
80°	4490	4543	4490
85°	3620	4033	4033



TEST NUMBER: P845159

CATALOG NUMBER: SQ4P-PR1-050U-075D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	2.3
10°-20°	298.7	6.7
20°-30°	450.5	10.1
30°-40°	536.8	12.0
40°-50°	529.2	11.8
50°-60°	404.4	9.0
60°-70°	250.2	5.6
70°-80°	142.1	3.2
80°-90°	43.9	1.0
90°-100°	104.9	2.3
100°-110°	364.9	8.2
110°-120°	353.5	7.9
120°-130°	277.3	6.2
130°-140°	219.5	4.9
140°-150°	169.4	3.8
150°-160°	121.4	2.7
160°-170°	74.3	1.7
170°-180°	25.1	0.6
0°-30°	853.6	19.1
0°-40°	1390.3	31.1
0°-60°	2323.9	52.0
0°-90°	2760.2	61.7
90°-120°	823.3	18.4
90°-150°	1489.4	33.3
90°-180°	1710.0	38.3
0°-180°	4470.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1110	1098	1101	1097	1095	105
15°	1068	1057	1061	1057	1055	301
25°	990	978	983	973	972	455
35°	872	862	864	853	852	544
45°	706	696	693	681	679	540
55°	462	455	452	444	442	414
65°	248	246	249	247	247	251
75°	134	134	134	135	135	142
85°	34	36	38	38	38	40
90°	4	6	6	4	2	4
95°	18	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



TEST NUMBER: P845159

CATALOG NUMBER: SQ4P-PR1-050U-075D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.8	1103.8	1103.8	1103.8	1103.8
2.5°	1110.8	1101.1	1103.8	1101.6	1096.3
5°	1109.6	1097.5	1101.1	1097.1	1095.3
7.5°	1101.1	1089.0	1092.7	1088.8	1087.8
10°	1093.4	1082.2	1085.8	1082.0	1080.0
12.5°	1085.0	1073.2	1077.5	1072.9	1071.0
15°	1067.8	1056.7	1061.1	1057.3	1055.3
17.5°	1048.7	1036.8	1041.4	1037.0	1034.5
20°	1033.6	1022.4	1026.8	1020.3	1019.3
22.5°	1016.8	1005.7	1010.1	1001.3	1001.1
25°	989.7	977.7	983.2	972.7	971.7
27.5°	957.6	946.5	951.0	940.3	939.3
30°	935.5	924.4	929.0	917.5	915.6
32.5°	910.5	900.1	903.9	892.5	891.3
35°	871.9	861.6	864.3	852.9	851.9
37.5°	828.0	818.7	820.1	807.5	806.7
40°	796.7	787.5	788.1	774.9	773.9
42.5°	762.6	753.3	752.4	739.2	738.2
45°	705.5	696.2	693.1	680.7	678.8
47.5°	640.5	631.2	625.4	615.2	614.0
50°	593.3	584.0	579.0	570.4	567.6
52.5°	542.3	533.0	528.9	521.0	518.2
55°	462.0	454.6	451.7	444.0	442.2
57.5°	385.8	380.9	379.9	372.5	371.8
60°	339.5	336.6	336.6	329.9	329.9
62.5°	299.9	297.8	299.2	294.8	294.2
65°	248.2	246.3	249.1	247.2	247.2
67.5°	207.4	207.4	208.9	208.1	208.1
70°	184.4	184.4	185.3	185.3	185.3
72.5°	163.9	163.2	165.7	165.6	164.9
75°	134.1	134.1	134.1	135.0	135.0
77.5°	104.4	104.6	105.4	105.2	104.4
80°	84.5	85.5	85.5	84.5	84.5
82.5°	64.9	65.8	65.8	65.6	64.9
85°	34.2	36.0	38.1	38.1	38.1
87.5°	9.8	12.8	15.3	15.3	14.4
90°	3.9	5.9	5.9	3.9	2.0
92.5°	9.8	29.5	27.5	11.8	9.8
95°	17.7	61.0	177.0	45.2	27.5
97.5°	27.5	68.8	353.9	161.3	86.5
100°	37.4	72.8	413.0	387.4	249.7
102.5°	49.1	78.7	411.0	544.7	448.4
105°	61.0	86.5	383.5	646.9	601.7



TEST NUMBER: P845159

CATALOG NUMBER: SQ4P-PR1-050U-075D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.4	116.1	299.0	650.9	741.4
115°	106.2	127.8	285.2	601.7	709.9
117.5°	118.0	141.6	277.2	556.5	664.6
120°	127.8	153.3	271.4	513.3	619.4
122.5°	135.7	165.2	267.4	477.8	574.2
125°	143.6	177.0	265.5	448.4	534.9
127.5°	151.4	184.9	265.5	426.8	499.5
130°	159.3	188.8	263.5	405.1	470.0
132.5°	167.1	190.7	263.5	389.4	444.5
135°	173.0	194.6	263.5	373.6	422.8
137.5°	180.9	198.6	263.5	359.8	405.1
140°	186.8	204.5	263.5	346.1	385.5
142.5°	194.6	210.4	263.5	332.3	367.7
145°	202.6	216.4	261.6	322.5	350.0
147.5°	210.4	222.2	259.6	312.7	334.3
150°	216.4	228.1	259.6	302.9	320.6
152.5°	224.2	234.0	257.7	293.0	308.7
155°	230.1	238.0	257.7	287.1	296.9
157.5°	235.9	243.9	257.7	281.2	289.1
160°	241.9	247.8	259.6	277.2	283.2
162.5°	247.8	251.7	259.6	273.3	277.2
165°	251.7	253.6	259.6	271.4	273.3
167.5°	255.6	257.7	259.6	269.4	269.4
170°	257.7	259.6	261.6	267.4	267.4
172.5°	261.6	261.6	261.6	265.5	265.5
175°	263.5	263.5	261.6	265.5	263.5
177.5°	263.5	263.5	261.6	265.5	263.5
180°	263.5	263.5	263.5	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	72.8	96.4	348.1	692.2	700.1
110°	82.6	106.2	320.6	686.3	743.3



(END OF REPORT)