

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: P845216

Luminaire Tested: **SQ4P-PR1-150U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845216
REPORT IS A COMBINATION OF REPORTS P700147 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-150U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

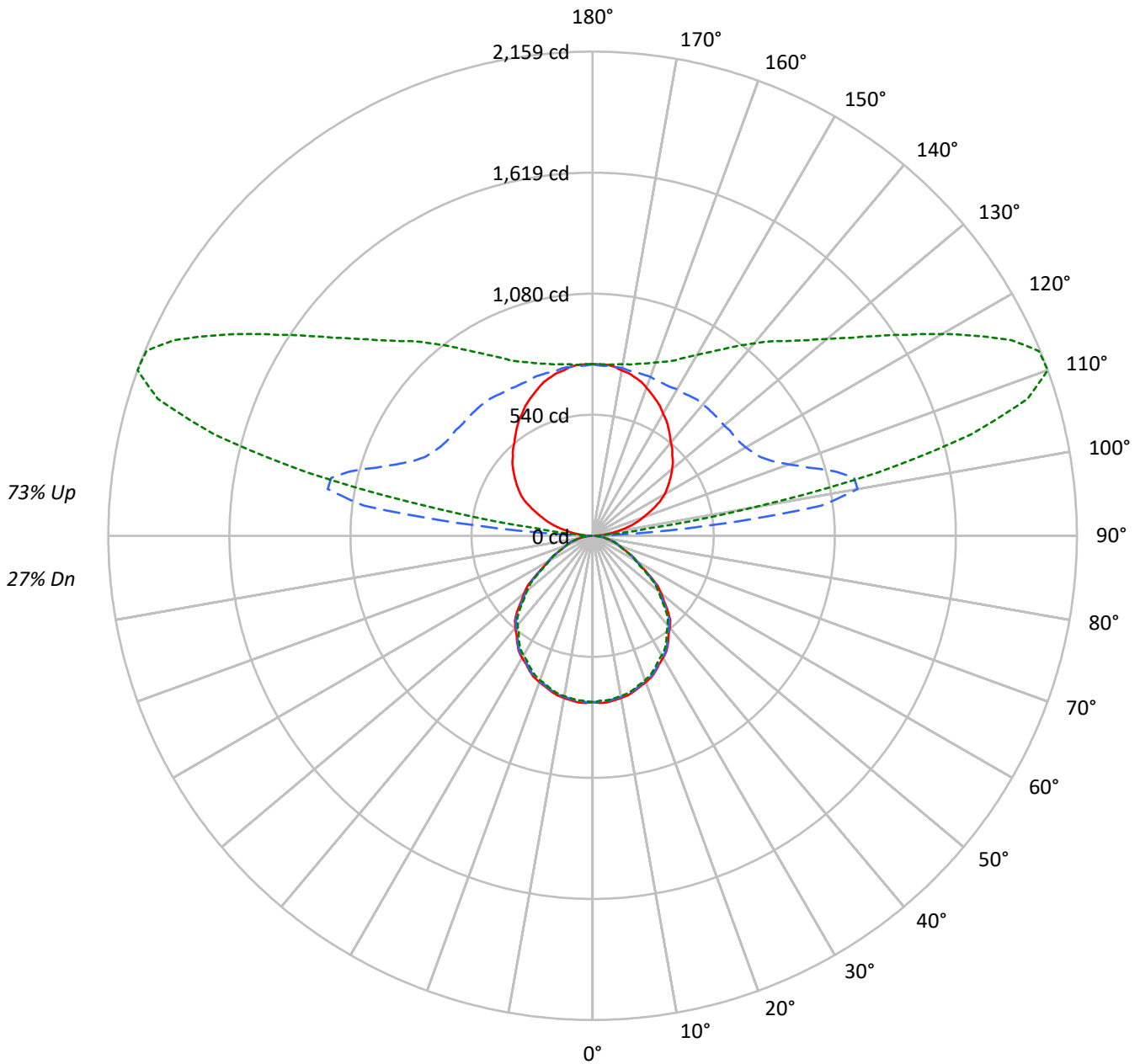
Lumens per Lamp: N/A
Luminaire Lumens: 6823.1 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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: P845216

CATALOG NUMBER: SQ4P-PR1-150U-050D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845216

CATALOG NUMBER: SQ4P-PR1-150U-050D-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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27																			
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30	23																			
2	85	78	72	67	75	70	65	61	54	51	48	41	38	37	28	27	25	20																			
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22	17																			
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	15																			
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	16	13																			
6	60	48	40	35	53	43	37	32	34	30	26	26	23	20	18	16	15	11																			
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	16	14	13	10																			
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	12	9																			
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8																			
10	44	32	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6844	6844	6844
5°	6906	6853	6817
10°	6883	6835	6800
15°	6854	6810	6774
20°	6819	6775	6725
25°	6771	6726	6648
30°	6697	6650	6555
35°	6600	6542	6448
40°	6448	6378	6264
45°	6186	6078	5952
50°	5723	5585	5474
55°	4995	4884	4781
60°	4209	4174	4091
65°	3639	3655	3626
70°	3342	3361	3361
75°	3212	3212	3233
80°	3023	3055	3023
85°	2435	2699	2699



TEST NUMBER: P845216

CATALOG NUMBER: SQ4P-PR1-150U-050D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.0
10°-20°	200.7	2.9
20°-30°	302.7	4.4
30°-40°	360.7	5.3
40°-50°	355.6	5.2
50°-60°	271.8	4.0
60°-70°	168.2	2.5
70°-80°	95.5	1.4
80°-90°	30.9	0.5
90°-100°	304.6	4.5
100°-110°	1059.8	15.5
110°-120°	1026.6	15.0
120°-130°	805.3	11.8
130°-140°	637.4	9.3
140°-150°	491.9	7.2
150°-160°	352.6	5.2
160°-170°	215.7	3.2
170°-180°	73.0	1.1
0°-30°	573.6	8.4
0°-40°	934.3	13.7
0°-60°	1561.6	22.9
0°-90°	1856.3	27.2
90°-120°	2391.0	35.0
90°-150°	4325.6	63.4
90°-180°	4967.0	72.8
0°-180°	6823.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	746	737	740	737	736	71
15°	718	710	713	710	709	202
25°	665	657	661	654	653	306
35°	586	579	581	573	572	366
45°	474	468	466	457	456	363
55°	310	306	304	298	297	278
65°	167	166	167	166	166	169
75°	90	90	90	91	91	95
85°	23	24	26	26	26	27
90°	11	17	17	11	6	8
95°	51	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



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CATALOG NUMBER: SQ4P-PR1-150U-050D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.8	741.8	741.8	741.8	741.8
2.5°	746.4	739.9	741.8	740.2	736.7
5°	745.7	737.4	739.9	737.3	736.1
7.5°	739.9	731.9	734.3	731.7	731.0
10°	734.7	727.3	729.6	727.1	725.8
12.5°	729.1	721.2	724.0	720.9	719.7
15°	717.6	710.0	713.0	710.4	709.2
17.5°	704.8	696.7	699.8	696.8	695.2
20°	694.5	687.1	690.0	685.6	684.9
22.5°	683.2	675.8	678.7	672.9	672.7
25°	665.1	656.9	660.7	653.7	653.0
27.5°	643.5	636.1	639.0	631.9	631.2
30°	628.6	621.2	624.2	616.5	615.3
32.5°	611.8	604.9	607.4	599.7	598.9
35°	586.0	579.0	580.8	573.1	572.5
37.5°	556.4	550.1	551.1	542.6	542.1
40°	535.4	529.2	529.6	520.7	520.1
42.5°	512.5	506.2	505.6	496.7	496.0
45°	474.1	467.9	465.8	457.4	456.2
47.5°	430.4	424.1	420.3	413.4	412.6
50°	398.7	392.4	389.1	383.3	381.4
52.5°	364.4	358.2	355.4	350.1	348.3
55°	310.5	305.5	303.6	298.4	297.2
57.5°	259.2	256.0	255.3	250.3	249.8
60°	228.1	226.2	226.2	221.7	221.7
62.5°	201.6	200.1	201.1	198.2	197.7
65°	166.7	165.6	167.4	166.1	166.1
67.5°	139.3	139.3	140.4	139.8	139.8
70°	123.9	123.9	124.6	124.6	124.6
72.5°	110.1	109.7	111.4	111.3	110.8
75°	90.1	90.1	90.1	90.7	90.7
77.5°	70.2	70.3	70.8	70.8	70.2
80°	56.9	57.5	57.5	56.9	56.9
82.5°	43.6	44.1	44.1	44.0	43.6
85°	23.0	24.3	25.5	25.5	25.5
87.5°	6.7	8.6	10.3	10.3	9.7
90°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



TEST NUMBER: P845216

CATALOG NUMBER: SQ4P-PR1-150U-050D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)