

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: P844976

Luminaire Tested: **SQ4P-PC3-025U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844976
REPORT IS A COMBINATION OF REPORTS P700167 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-025U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

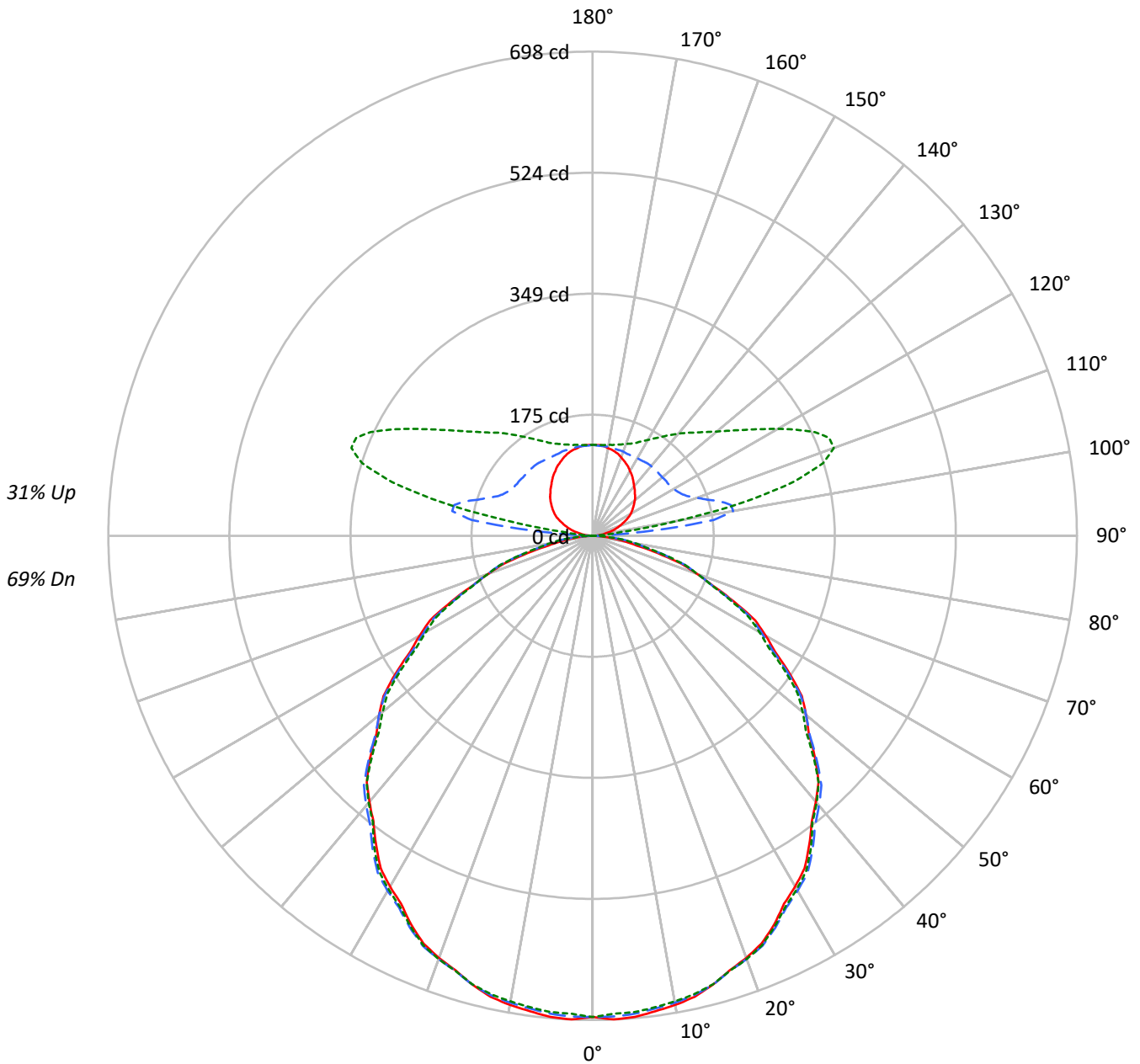
Lumens per Lamp: N/A
Luminaire Lumens: 2744.9 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 23.8
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: P844976

CATALOG NUMBER: SQ4P-PC3-025U-050D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P844976

CATALOG NUMBER: SQ4P-PC3-025U-050D-B35-1D-UNV

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	50	30	10	0
RCR																					
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	74	74	74	69	69	69	69
1	102	98	94	90	96	92	89	86	83	80	77	74	72	70	65	64	62	58	58	58	58
2	93	85	79	74	88	81	75	70	72	68	64	65	61	58	57	55	53	49	49	49	49
3	85	75	67	61	80	71	64	59	64	58	54	57	53	49	51	48	45	41	41	41	41
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	45	42	38	35	35	35	35
5	71	59	51	45	67	56	49	43	51	45	40	46	41	37	41	37	33	31	31	31	31
6	66	53	45	39	62	51	43	37	46	39	35	41	36	32	37	33	29	27	27	27	27
7	61	48	40	34	57	46	38	33	42	35	31	38	32	28	34	29	26	24	24	24	24
8	57	44	36	30	53	42	34	29	38	32	27	34	29	25	31	27	23	21	21	21	21
9	53	40	32	27	50	38	31	26	35	29	24	32	26	23	29	24	21	19	19	19	19
10	49	37	29	24	47	35	28	24	32	26	22	29	24	21	27	22	19	17	17	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6400	6400	6400
5°	6450	6407	6384
10°	6434	6403	6386
15°	6400	6400	6394
20°	6358	6377	6377
25°	6297	6344	6324
30°	6221	6296	6269
35°	6129	6223	6179
40°	6027	6112	6051
45°	5918	5960	5868
50°	5763	5763	5671
55°	5580	5508	5426
60°	5311	5204	5121
65°	4908	4812	4768
70°	4297	4332	4316
75°	3458	3825	3846
80°	2460	3246	3273
85°	1503	2721	2721



TEST NUMBER: P844976

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	2.4
10°-20°	188.4	6.9
20°-30°	285.4	10.4
30°-40°	342.1	12.5
40°-50°	348.8	12.7
50°-60°	304.5	11.1
60°-70°	218.0	7.9
70°-80°	112.3	4.1
80°-90°	28.7	1.0
90°-100°	52.2	1.9
100°-110°	181.6	6.6
110°-120°	175.9	6.4
120°-130°	138.0	5.0
130°-140°	109.2	4.0
140°-150°	84.3	3.1
150°-160°	60.4	2.2
160°-170°	37.0	1.3
170°-180°	12.5	0.5
0°-30°	539.4	19.7
0°-40°	881.5	32.1
0°-60°	1534.9	55.9
0°-90°	1893.9	69.0
90°-120°	409.7	14.9
90°-150°	741.2	27.0
90°-180°	851.0	31.0
0°-180°	2744.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	696	689	692	690	689	66
15°	670	664	670	670	669	189
25°	619	614	623	621	621	285
35°	544	543	552	549	549	340
45°	454	452	457	451	450	349
55°	347	342	342	337	337	309
65°	225	220	220	218	218	222
75°	97	102	107	108	108	105
85°	14	22	26	26	26	19
90°	2	3	3	2	1	2
95°	9	30	88	22	14	9
105°	30	43	191	322	300	32
115°	53	64	142	300	353	52
125°	71	88	132	223	266	64
135°	86	97	131	186	210	67
145°	101	108	130	160	174	63
155°	114	118	128	143	148	53
165°	125	126	129	135	136	35
175°	131	131	130	132	131	12
180°	131	131	131	131	131	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	693.7	693.7	693.7	693.7	693.7
2.5°	697.9	691.8	693.7	692.2	689.7
5°	696.4	689.4	691.8	689.9	689.3
7.5°	691.4	684.4	687.6	686.4	685.7
10°	686.8	679.8	683.5	682.3	681.6
12.5°	680.6	674.1	678.3	677.2	676.9
15°	670.0	664.4	670.0	670.0	669.4
17.5°	656.8	651.6	657.7	658.1	657.7
20°	647.6	641.9	649.5	648.8	649.5
22.5°	636.3	631.7	639.7	638.0	638.7
25°	618.6	614.2	623.2	621.2	621.2
27.5°	597.9	594.7	604.4	602.3	602.3
30°	583.9	580.8	591.0	588.4	588.4
32.5°	568.5	566.4	576.2	573.0	573.0
35°	544.2	542.8	552.5	548.6	548.6
37.5°	518.9	517.8	526.6	521.9	520.3
40°	500.4	499.9	507.5	502.4	502.4
42.5°	481.9	481.3	488.0	481.8	481.8
45°	453.6	452.2	456.8	450.9	449.7
47.5°	422.5	421.4	424.1	417.8	417.2
50°	401.5	400.2	401.5	395.6	395.1
52.5°	380.0	377.6	377.8	372.1	372.0
55°	346.9	342.5	342.4	337.3	337.3
57.5°	312.0	306.2	306.8	302.3	301.6
60°	287.8	281.5	282.0	278.2	277.5
62.5°	264.1	256.9	258.3	254.0	253.9
65°	224.8	219.8	220.4	218.4	218.4
67.5°	187.0	182.4	185.8	184.3	184.2
70°	159.3	156.2	160.6	160.6	160.0
72.5°	133.7	133.6	139.0	139.0	139.4
75°	97.0	101.5	107.3	107.9	107.9
77.5°	64.8	72.5	79.1	79.3	79.2
80°	46.3	55.0	61.1	62.3	61.6
82.5°	31.3	40.6	45.6	46.9	46.3
85°	14.2	21.7	25.7	26.3	25.7
87.5°	4.1	8.6	10.3	10.3	9.3
90°	2.0	2.9	2.9	2.0	1.0
92.5°	4.9	14.7	13.7	5.9	4.9
95°	8.8	30.3	88.1	22.5	13.7
97.5°	13.7	34.2	176.1	80.2	43.1
100°	18.6	36.2	205.5	192.8	124.3
102.5°	24.5	39.1	204.5	271.1	223.1
105°	30.3	43.1	190.8	322.0	299.5



TEST NUMBER: P844976

CATALOG NUMBER: SQ4P-PC3-025U-050D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.0	57.7	148.7	324.0	369.0
115°	52.8	63.6	141.9	299.5	353.4
117.5°	58.7	70.5	138.0	276.9	330.9
120°	63.6	76.3	135.0	255.4	308.3
122.5°	67.5	82.2	133.1	237.8	285.8
125°	71.4	88.1	132.1	223.1	266.2
127.5°	75.3	92.0	132.1	212.3	248.6
130°	79.3	93.9	131.1	201.6	233.9
132.5°	83.2	94.9	131.1	193.8	221.2
135°	86.1	96.9	131.1	185.9	210.4
137.5°	90.0	98.8	131.1	179.1	201.6
140°	93.0	101.8	131.1	172.2	191.8
142.5°	96.9	104.7	131.1	165.4	183.0
145°	100.8	107.6	130.1	160.5	174.2
147.5°	104.7	110.6	129.2	155.6	166.4
150°	107.6	113.5	129.2	150.7	159.5
152.5°	111.6	116.4	128.2	145.8	153.6
155°	114.5	118.4	128.2	142.9	147.8
157.5°	117.4	121.3	128.2	139.9	143.8
160°	120.4	123.3	129.2	138.0	140.9
162.5°	123.3	125.3	129.2	136.0	138.0
165°	125.3	126.2	129.2	135.0	136.0
167.5°	127.2	128.2	129.2	134.1	134.1
170°	128.2	129.2	130.1	133.1	133.1
172.5°	130.1	130.1	130.1	132.1	132.1
175°	131.1	131.1	130.1	132.1	131.1
177.5°	131.1	131.1	130.1	132.1	131.1
180°	131.1	131.1	131.1	131.1	131.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	36.2	47.9	173.2	344.6	348.5
110°	41.1	52.8	159.5	341.6	370.0



(END OF REPORT)