

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: P845144

Luminaire Tested: **SQ4P-PR1-025U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845144
REPORT IS A COMBINATION OF REPORTS P700175 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-025U-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

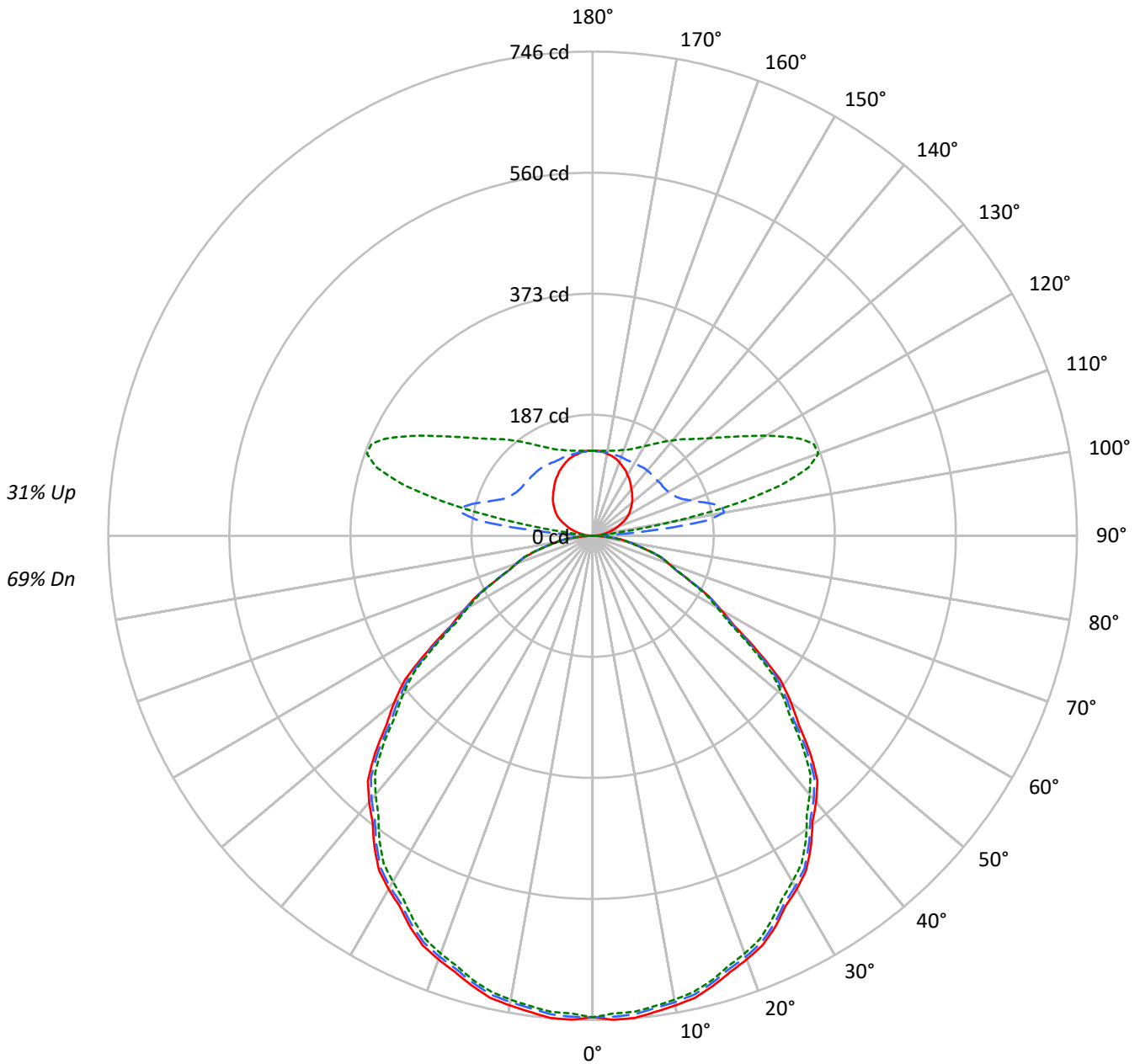
Lumens per Lamp: N/A
Luminaire Lumens: 2705.8 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	73	73	73	69				69
1	102	98	94	91	96	93	89	86	83	80	78	74	72	70	65	64	63	59				59
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	58	56	53	50				50
3	86	76	69	63	81	72	66	60	65	60	55	58	54	50	52	49	46	43				43
4	79	68	60	54	74	64	57	51	58	52	47	52	47	44	46	43	40	37				37
5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35	32				32
6	67	54	46	40	63	52	44	39	47	41	36	42	37	34	38	34	31	28				28
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28	25				25
8	57	45	37	32	54	43	36	31	39	33	29	36	30	27	32	28	25	23				23
9	54	41	34	28	51	39	32	28	36	30	26	33	28	24	30	25	22	20				20
10	50	38	31	26	47	36	29	25	33	27	23	30	25	22	28	23	20	18				18

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	2.6
10°-20°	200.7	7.4
20°-30°	302.7	11.2
30°-40°	360.7	13.3
40°-50°	355.6	13.1
50°-60°	271.8	10.0
60°-70°	168.2	6.2
70°-80°	95.5	3.5
80°-90°	29.4	1.1
90°-100°	52.2	1.9
100°-110°	181.6	6.7
110°-120°	175.9	6.5
120°-130°	138.0	5.1
130°-140°	109.2	4.0
140°-150°	84.3	3.1
150°-160°	60.4	2.2
160°-170°	37.0	1.4
170°-180°	12.5	0.5
0°-30°	573.6	21.2
0°-40°	934.3	34.5
0°-60°	1561.6	57.7
0°-90°	1854.7	68.5
90°-120°	409.7	15.1
90°-150°	741.2	27.4
90°-180°	851.0	31.5
0°-180°	2705.8	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°	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°	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°	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



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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)