

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: P845085

Luminaire Tested: **SQ4P-PP3-075U-050D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845085
REPORT IS A COMBINATION OF REPORTS P700227 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-075U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

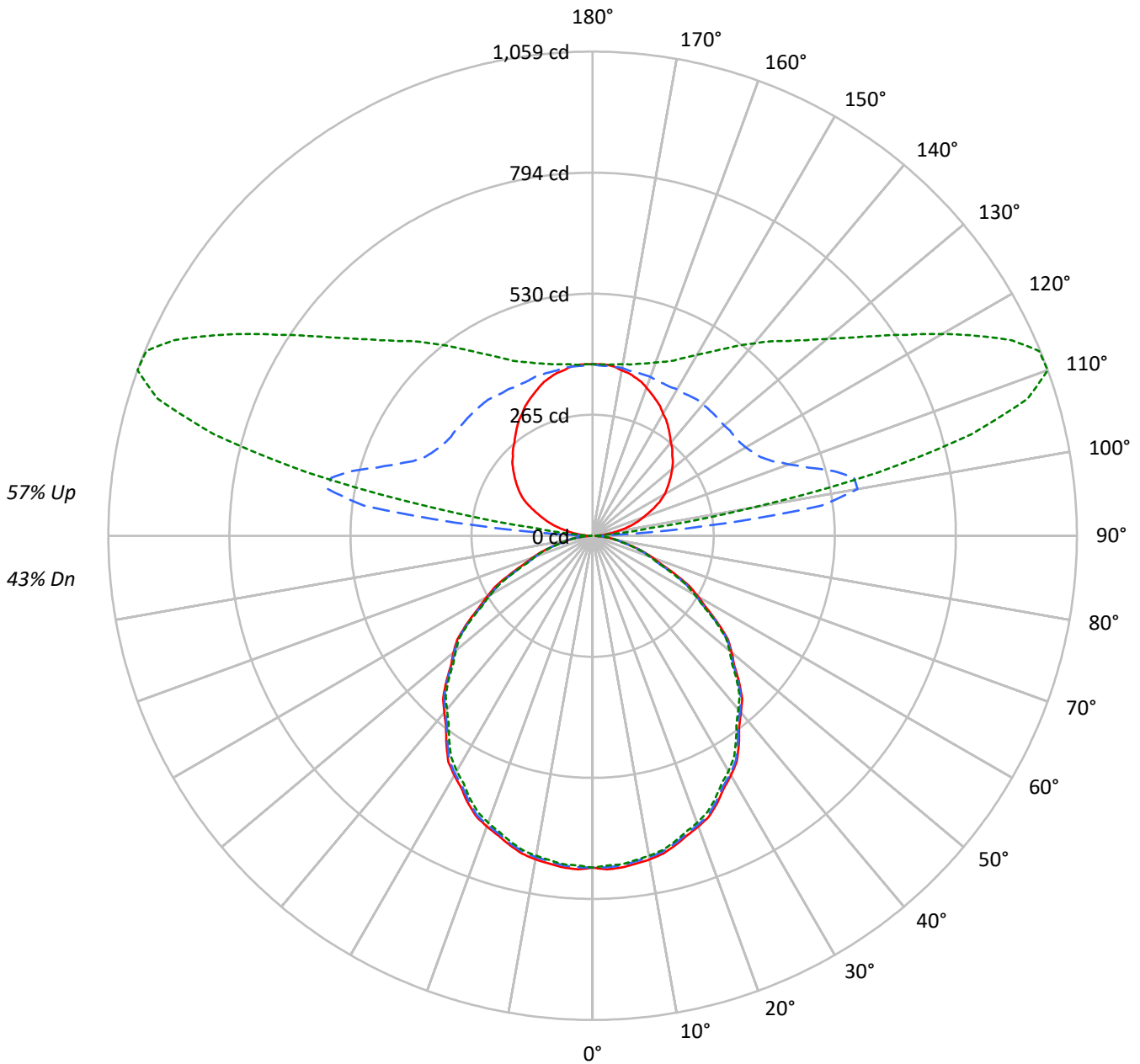
Lumens per Lamp: N/A
Luminaire Lumens: 4295.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.8
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: P845085

CATALOG NUMBER: SQ4P-PP3-075U-050D-B40-1D-UNV

Luminous Intensity Polar Plot





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CATALOG NUMBER: SQ4P-PP3-075U-050D-B40-1D-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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43				43				
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37				37				
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31				31				
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26				26				
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23				23				
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20				20				
6	62	50	42	37	57	46	39	34	39	34	29	32	28	25	26	23	20	17				17				
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15				15				
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14				14				
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12				12				
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11				11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6696	6696	6696
5°	6745	6704	6681
10°	6735	6687	6657
15°	6690	6654	6616
20°	6645	6608	6559
25°	6566	6521	6457
30°	6445	6411	6329
35°	6277	6233	6155
40°	6075	6036	5968
45°	5909	5868	5810
50°	5697	5661	5605
55°	5403	5331	5290
60°	4918	4777	4755
65°	4336	4152	4137
70°	3742	3588	3588
75°	3223	3176	3126
80°	2837	2874	2800
85°	2212	2435	2435



TEST NUMBER: P845085

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.6
10°-20°	196.0	4.6
20°-30°	293.5	6.8
30°-40°	344.3	8.0
40°-50°	345.4	8.0
50°-60°	294.6	6.9
60°-70°	192.2	4.5
70°-80°	96.4	2.2
80°-90°	27.6	0.6
90°-100°	149.4	3.5
100°-110°	519.9	12.1
110°-120°	503.6	11.7
120°-130°	395.1	9.2
130°-140°	312.7	7.3
140°-150°	241.3	5.6
150°-160°	173.0	4.0
160°-170°	105.8	2.5
170°-180°	35.8	0.8
0°-30°	558.1	13.0
0°-40°	902.4	21.0
0°-60°	1542.4	35.9
0°-90°	1858.6	43.3
90°-120°	1172.9	27.3
90°-150°	2122.0	49.4
90°-180°	2437.0	56.7
0°-180°	4295.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	722	724	721	721	69
15°	700	694	697	694	693	198
25°	645	638	641	635	634	297
35°	557	552	553	547	546	348
45°	453	450	450	445	445	349
55°	336	335	331	330	329	298
65°	199	195	190	189	190	198
75°	90	90	89	88	88	98
85°	21	23	23	23	23	25
90°	6	8	8	6	3	4
95°	25	87	252	64	39	27
105°	87	123	546	922	857	91
115°	151	182	406	857	1011	149
125°	205	252	378	639	762	183
135°	246	277	375	532	602	191
145°	289	308	373	460	499	181
155°	328	339	367	409	423	151
165°	359	362	370	387	390	101
175°	375	375	373	378	375	36
180°	375	375	375	375	375	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.8	725.8	725.8	725.8	725.8
2.5°	730.4	724.5	725.8	724.8	721.8
5°	728.3	721.6	723.9	721.4	721.4
7.5°	723.4	715.9	718.3	715.7	715.7
10°	718.9	711.4	713.8	711.2	710.6
12.5°	712.3	704.8	707.6	704.6	704.5
15°	700.4	693.5	696.6	693.9	692.7
17.5°	687.1	679.6	683.2	679.7	679.1
20°	676.8	669.3	673.0	668.0	668.0
22.5°	664.7	657.2	661.4	654.7	654.7
25°	645.0	637.5	640.6	634.8	634.3
27.5°	621.8	614.4	617.6	611.0	610.9
30°	605.0	598.1	601.8	594.8	594.1
32.5°	586.7	580.3	583.0	575.9	575.2
35°	557.3	551.7	553.4	547.0	546.5
37.5°	526.3	520.7	522.6	517.1	516.9
40°	504.4	500.7	501.2	496.7	495.5
42.5°	484.1	479.9	480.4	475.9	475.7
45°	452.9	449.7	449.7	445.3	445.3
47.5°	419.9	417.5	416.8	413.0	412.9
50°	396.9	395.1	394.4	391.2	390.5
52.5°	373.0	372.1	370.0	367.3	367.2
55°	335.9	334.6	331.4	329.5	328.9
57.5°	295.6	293.0	289.5	286.7	287.1
60°	266.5	264.0	258.9	257.7	257.7
62.5°	238.6	235.6	230.4	228.7	229.7
65°	198.6	194.8	190.2	189.0	189.5
67.5°	162.1	158.7	153.8	153.8	153.3
70°	138.7	136.7	133.0	133.0	133.0
72.5°	117.8	116.9	114.2	114.1	113.7
75°	90.4	90.4	89.1	88.4	87.7
77.5°	67.6	67.9	67.3	66.7	65.5
80°	53.4	54.8	54.1	53.4	52.7
82.5°	40.2	41.5	41.4	40.2	40.0
85°	20.9	22.8	23.0	23.0	23.0
87.5°	5.6	7.6	8.1	8.1	8.6
90°	5.6	8.4	8.4	5.6	2.8
92.5°	14.1	42.1	39.2	16.8	14.1
95°	25.2	86.8	252.2	64.4	39.2
97.5°	39.2	98.1	504.3	229.8	123.3
100°	53.2	103.7	588.3	552.0	355.8
102.5°	70.1	112.0	585.6	776.1	638.8
105°	86.8	123.3	546.4	921.8	857.3



TEST NUMBER: P845085

CATALOG NUMBER: SQ4P-PP3-075U-050D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.5	165.3	425.9	927.4	1056.3
115°	151.3	182.1	406.2	857.3	1011.4
117.5°	168.1	201.8	395.1	792.9	947.0
120°	182.1	218.5	386.7	731.3	882.5
122.5°	193.3	235.4	381.0	680.9	818.1
125°	204.6	252.2	378.2	638.8	762.1
127.5°	215.7	263.4	378.2	608.0	711.7
130°	227.0	269.0	375.4	577.2	669.6
132.5°	238.1	271.7	375.4	554.8	633.2
135°	246.5	277.3	375.4	532.3	602.4
137.5°	257.8	283.0	375.4	512.7	577.2
140°	266.2	291.4	375.4	493.1	549.2
142.5°	277.3	299.8	375.4	473.5	523.9
145°	288.6	308.2	372.6	459.5	498.7
147.5°	299.8	316.6	369.8	445.5	476.3
150°	308.2	325.0	369.8	431.4	456.7
152.5°	319.4	333.4	367.0	417.5	439.9
155°	327.8	339.0	367.0	409.0	423.1
157.5°	336.2	347.4	367.0	400.6	411.9
160°	344.6	353.0	369.8	395.1	403.4
162.5°	353.0	358.7	369.8	389.5	395.1
165°	358.7	361.5	369.8	386.7	389.5
167.5°	364.3	367.0	369.8	383.8	383.8
170°	367.0	369.8	372.6	381.0	381.0
172.5°	372.6	372.6	372.6	378.2	378.2
175°	375.4	375.4	372.6	378.2	375.4
177.5°	375.4	375.4	372.6	378.2	375.4
180°	375.4	375.4	375.4	375.4	375.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	103.7	137.3	495.9	986.2	997.5
110°	117.6	151.3	456.7	977.8	1059.1



(END OF REPORT)