

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: P845346

Luminaire Tested: **SQ4P-WB-075U-125D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845346
REPORT IS A COMBINATION OF REPORTS P700242 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-075U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

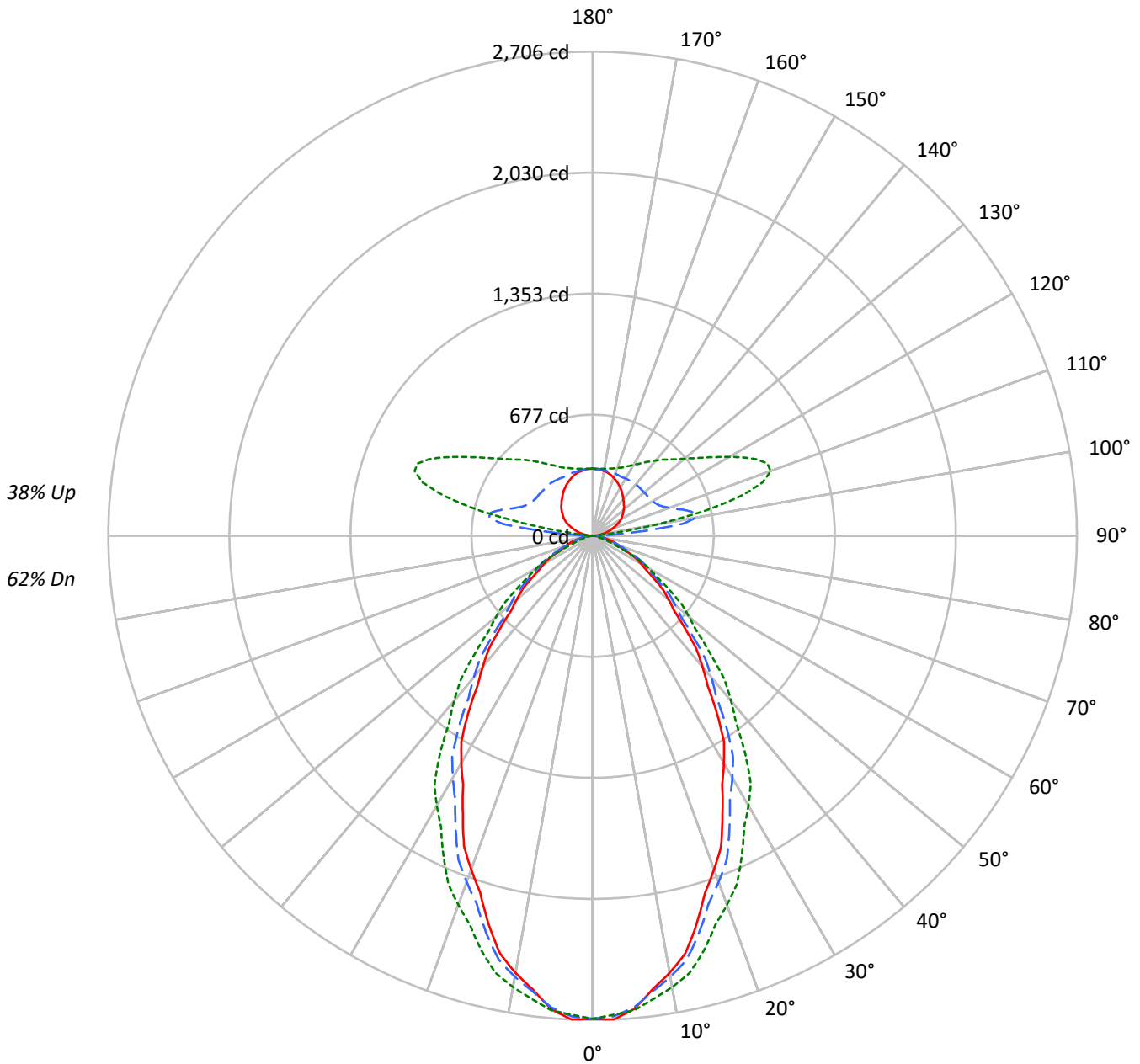
Lumens per Lamp: N/A
Luminaire Lumens: 6370.9 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.8
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									
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	102	98	95	91	95	92	89	86	81	79	77	71	69	68	61	60	59	55																			
2	94	87	82	77	88	82	77	73	73	69	66	64	61	59	56	54	52	48																			
3	87	78	71	66	81	74	68	63	65	61	57	58	54	52	51	48	46	43																			
4	80	70	63	57	75	66	60	55	59	54	50	53	49	46	46	44	41	38																			
5	74	63	56	50	70	60	53	48	54	49	45	48	44	41	43	39	37	34																			
6	69	58	50	45	65	55	48	43	49	44	40	44	40	37	39	36	33	31																			
7	64	53	45	40	60	50	43	39	45	40	36	41	36	33	36	33	30	28																			
8	60	48	41	36	56	46	39	35	42	36	32	38	33	30	34	30	28	26																			
9	56	45	38	33	53	43	36	32	39	33	30	35	31	28	32	28	25	24																			
10	53	41	34	30	50	39	33	29	36	31	27	33	28	25	30	26	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24904	24904	24904
5°	24595	24505	24649
10°	23236	23448	23990
15°	21449	21949	22933
20°	19480	20211	21547
25°	17472	18425	20076
30°	15622	16642	18548
35°	13660	14648	16743
40°	11496	12410	14494
45°	9488	10306	12102
50°	7920	8636	10080
55°	6725	7411	8324
60°	5750	6427	6645
65°	4578	5403	4290
70°	4057	4216	2619
75°	3754	3422	1608
80°	3459	3145	1381
85°	3123	2890	1143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	3.9
10°-20°	644.0	10.1
20°-30°	834.2	13.1
30°-40°	816.9	12.8
40°-50°	625.2	9.8
50°-60°	416.6	6.5
60°-70°	227.4	3.6
70°-80°	94.7	1.5
80°-90°	27.7	0.4
90°-100°	149.4	2.3
100°-110°	519.9	8.2
110°-120°	503.6	7.9
120°-130°	395.1	6.2
130°-140°	312.7	4.9
140°-150°	241.3	3.8
150°-160°	173.0	2.7
160°-170°	105.8	1.7
170°-180°	35.8	0.6
0°-30°	1725.8	27.1
0°-40°	2542.6	39.9
0°-60°	3584.5	56.3
0°-90°	3934.3	61.8
90°-120°	1172.9	18.4
90°-150°	2122.0	33.3
90°-180°	2437.0	38.3
0°-180°	6370.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2699	2699	2699	2699	2699	
5°	2656	2629	2646	2652	2662	247
15°	2246	2238	2298	2360	2401	627
25°	1716	1721	1810	1889	1972	789
35°	1213	1219	1300	1388	1486	754
45°	727	741	790	850	928	567
55°	418	436	461	478	518	379
65°	210	227	248	216	196	218
75°	105	105	96	66	45	113
85°	30	30	27	18	11	32
90°	6	8	8	6	3	5
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°	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2706.0	2681.9	2688.1	2687.8	2680.2
5°	2655.6	2628.8	2645.9	2652.1	2661.5
7.5°	2557.0	2536.8	2568.2	2591.3	2610.0
10°	2480.2	2462.8	2502.8	2536.5	2560.7
12.5°	2391.3	2376.4	2426.0	2471.1	2503.0
15°	2245.6	2237.6	2297.9	2360.3	2400.9
17.5°	2090.1	2086.1	2155.3	2228.2	2279.9
20°	1984.0	1982.9	2058.5	2134.7	2194.6
22.5°	1877.0	1879.3	1959.0	2038.1	2106.7
25°	1716.3	1720.9	1809.9	1888.7	1972.1
27.5°	1567.8	1569.9	1661.7	1745.0	1834.0
30°	1466.4	1472.1	1562.1	1648.5	1741.0
32.5°	1365.0	1371.8	1460.0	1549.0	1643.4
35°	1212.8	1218.7	1300.5	1388.1	1486.5
37.5°	1055.9	1063.9	1136.6	1219.2	1316.3
40°	954.5	966.3	1030.4	1108.5	1203.4
42.5°	856.9	871.5	931.0	1004.9	1090.5
45°	727.2	741.1	789.9	849.7	927.5
47.5°	615.4	631.4	669.0	720.5	786.7
50°	551.8	567.1	601.7	639.8	702.3
52.5°	496.1	511.1	541.9	571.4	624.8
55°	418.1	435.5	460.7	478.3	517.5
57.5°	354.2	370.9	390.9	398.7	422.6
60°	311.6	330.1	348.3	347.2	360.1
62.5°	272.7	288.5	306.5	293.9	294.7
65°	209.7	227.1	247.5	216.4	196.5
67.5°	169.5	173.0	194.1	151.0	127.3
70°	150.4	150.4	156.3	116.9	97.1
72.5°	132.5	132.5	127.1	94.9	74.2
75°	105.3	105.3	96.0	66.0	45.1
77.5°	81.2	80.4	73.5	49.0	32.8
80°	65.1	65.1	59.2	38.9	26.0
82.5°	51.0	51.0	45.8	30.3	19.3
85°	29.5	29.5	27.3	17.7	10.8
87.5°	10.5	10.5	9.4	5.6	4.8
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



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CATALOG NUMBER: SQ4P-WB-075U-125D-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)