

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: P844815

Luminaire Tested: **SQ4P-BB-025U-100D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844815
REPORT IS A COMBINATION OF REPORTS P700161 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-025U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

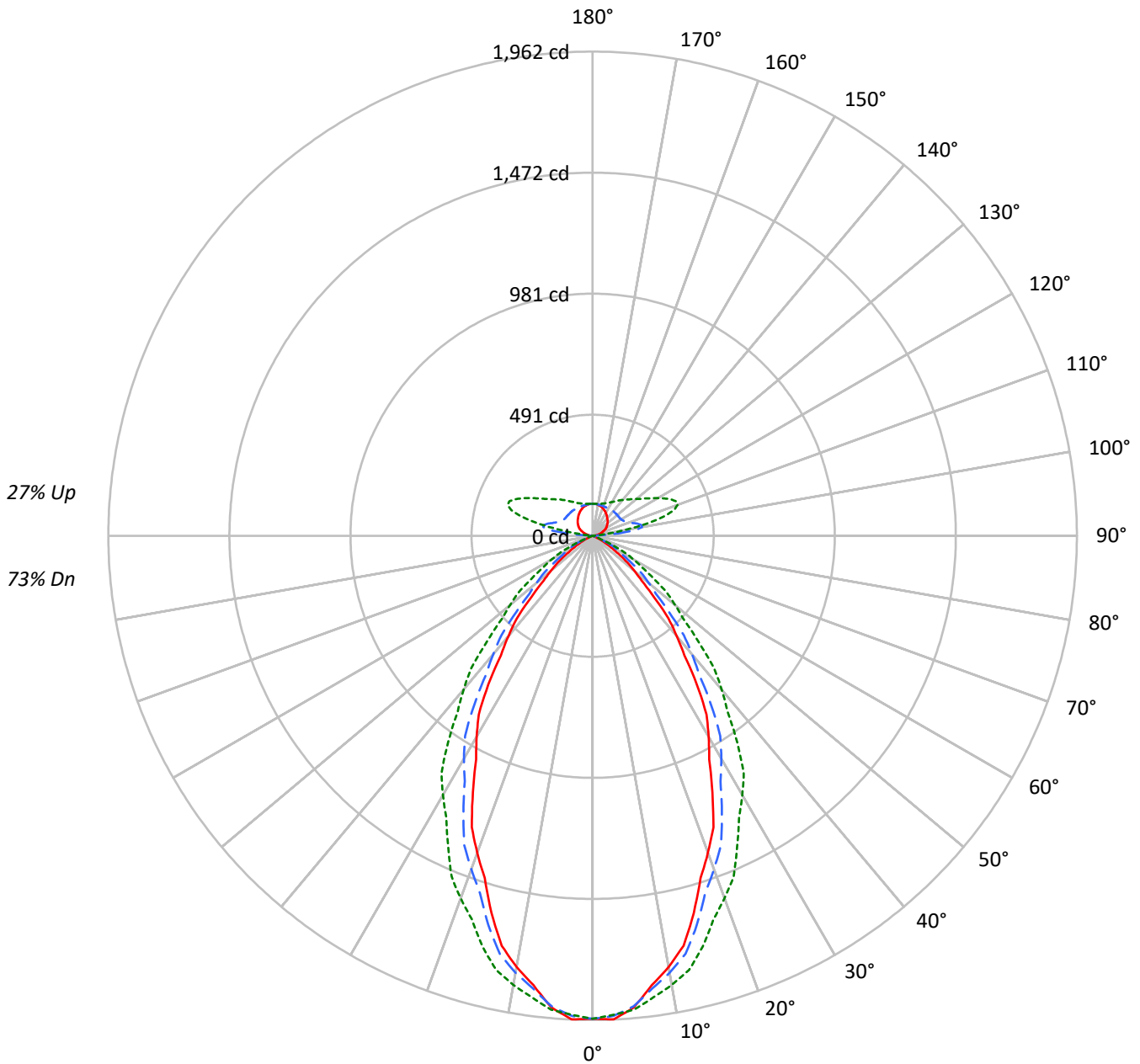
Lumens per Lamp: N/A
Luminaire Lumens: 3177.6 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 41.9
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	113	113	113	113	107	107	107	107	96	96	96	87	87	87	78	78	78	73				73															
1	106	102	99	96	100	97	95	92	88	87	85	80	79	77	73	72	71	67				67															
2	98	92	87	83	94	88	84	80	81	77	75	74	71	69	67	65	64	61				61															
3	92	84	78	73	87	80	75	71	74	70	66	68	65	62	62	60	58	55				55															
4	85	76	70	64	81	73	67	63	68	63	59	62	59	56	58	55	52	50				50															
5	80	70	63	57	76	67	61	56	62	57	53	58	53	50	53	50	47	45				45															
6	74	64	57	52	71	62	55	50	57	52	48	53	49	46	50	46	43	41				41															
7	70	59	52	47	67	57	50	46	53	48	44	50	45	42	46	43	40	38				38															
8	65	54	47	43	63	53	46	42	49	44	40	46	42	38	43	39	37	35				35															
9	62	50	44	39	59	49	43	38	46	41	37	43	39	35	40	37	34	32				32															
10	58	47	40	36	56	46	39	35	43	38	34	40	36	33	38	34	31	30				30															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18056	18056	18056
5°	17765	17722	17853
10°	16622	16844	17314
15°	15112	15591	16459
20°	13415	14111	15346
25°	11681	12606	14100
30°	10007	11104	12921
35°	8295	9427	11494
40°	6374	7538	9794
45°	4608	5707	7881
50°	3138	4251	6252
55°	2041	3076	4859
60°	1172	2168	3511
65°	308	1325	1779
70°	156	410	510
75°	68	32	0
80°	48	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	5.6
10°-20°	456.7	14.4
20°-30°	571.8	18.0
30°-40°	528.1	16.6
40°-50°	354.9	11.2
50°-60°	183.3	5.8
60°-70°	57.4	1.8
70°-80°	3.6	0.1
80°-90°	0.4	0.0
90°-100°	51.7	1.6
100°-110°	179.8	5.7
110°-120°	174.2	5.5
120°-130°	136.6	4.3
130°-140°	108.2	3.4
140°-150°	83.5	2.6
150°-160°	59.8	1.9
160°-170°	36.6	1.2
170°-180°	12.4	0.4
0°-30°	1207.1	38.0
0°-40°	1735.2	54.6
0°-60°	2273.4	71.5
0°-90°	2334.8	73.5
90°-120°	405.7	12.8
90°-150°	734.0	23.1
90°-180°	843.0	26.5
0°-180°	3177.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1918	1899	1914	1920	1928	178
15°	1582	1577	1632	1687	1723	441
25°	1147	1157	1238	1323	1385	526
35°	736	755	837	935	1020	456
45°	353	374	437	523	604	277
55°	127	148	191	246	302	118
65°	14	27	61	73	82	24
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	3	3	2	1	1
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.0	1957.0	1957.0	1957.0	1957.0
2.5°	1961.5	1943.1	1947.8	1947.8	1942.6
5°	1918.2	1898.7	1913.5	1920.1	1927.7
7.5°	1837.1	1821.9	1850.2	1871.3	1886.7
10°	1774.2	1761.3	1797.9	1826.7	1848.1
12.5°	1701.5	1691.4	1735.8	1775.4	1802.7
15°	1582.1	1576.6	1632.3	1686.9	1723.2
17.5°	1454.2	1453.9	1517.4	1585.5	1629.0
20°	1366.3	1369.0	1437.2	1512.2	1563.0
22.5°	1278.4	1284.8	1357.7	1436.0	1494.2
25°	1147.4	1156.6	1238.3	1323.2	1385.1
27.5°	1021.8	1035.3	1121.2	1209.1	1284.8
30°	939.3	954.9	1042.3	1135.0	1212.8
32.5°	858.0	876.9	962.0	1060.2	1139.2
35°	736.5	755.2	837.0	935.4	1020.5
37.5°	611.1	629.1	709.1	806.2	898.1
40°	529.2	549.6	625.9	719.8	813.2
42.5°	455.1	475.4	547.0	639.4	727.7
45°	353.2	374.4	437.4	522.6	604.0
47.5°	268.8	291.7	347.0	424.2	498.4
50°	218.6	241.8	296.2	364.2	435.6
52.5°	178.6	201.1	250.1	314.0	379.4
55°	126.9	148.1	191.2	245.7	302.1
57.5°	87.7	106.1	144.7	189.9	234.3
60°	63.5	81.0	117.5	154.1	190.3
62.5°	42.3	58.3	93.9	122.2	146.4
65°	14.1	27.2	60.7	73.1	81.5
67.5°	7.3	8.5	31.7	33.6	36.4
70°	5.8	5.8	15.2	16.1	18.9
72.5°	4.1	4.1	6.0	7.8	8.3
75°	1.9	1.9	0.9	0.0	0.0
77.5°	0.9	0.9	0.9	0.0	0.0
80°	0.9	0.9	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)