

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: P845315

Luminaire Tested: **SQ4P-WB-025U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845315
REPORT IS A COMBINATION OF REPORTS P700184 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-025U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

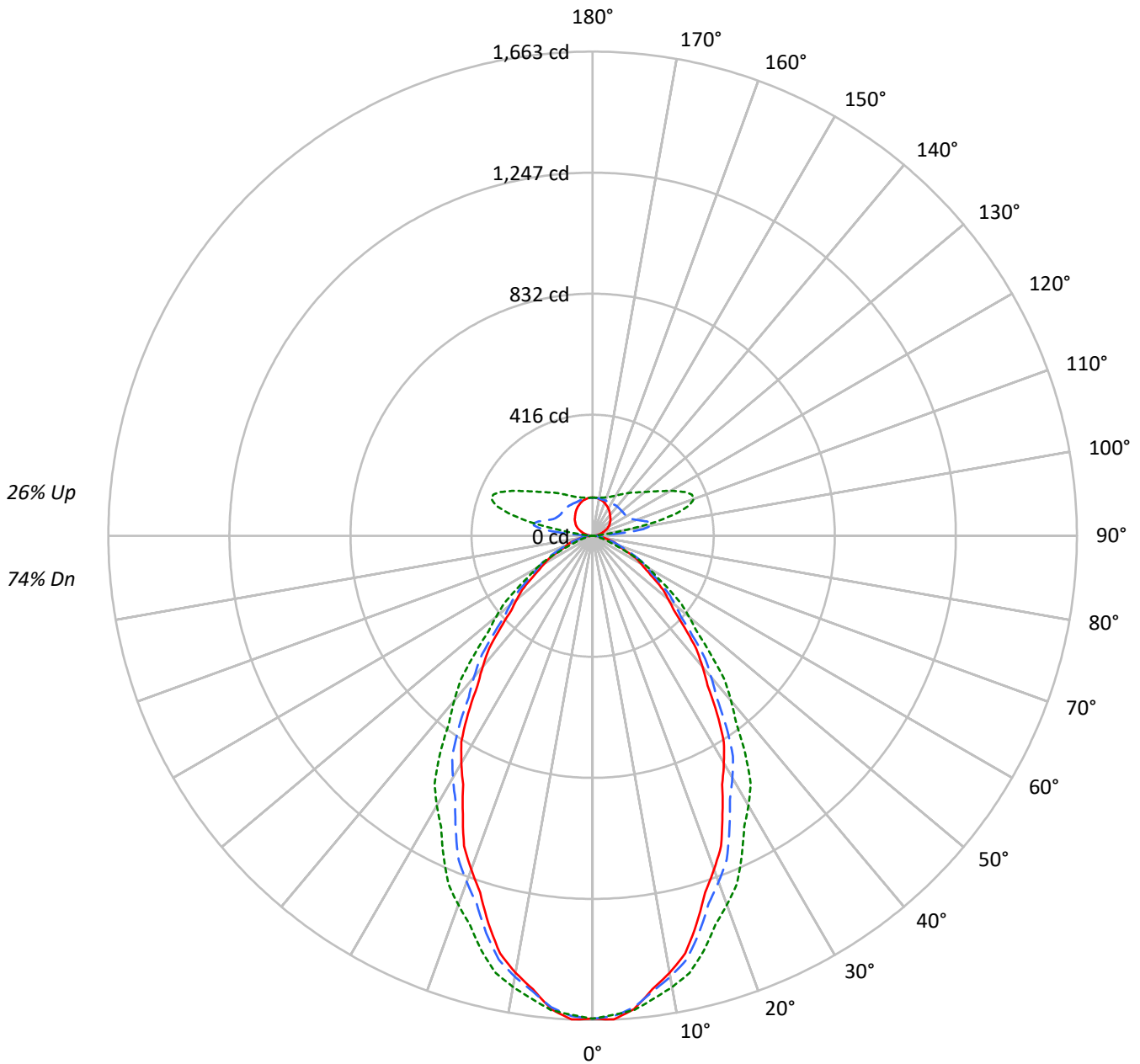
Lumens per Lamp: N/A
Luminaire Lumens: 3268.4 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 32.6
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				
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74	74	74	74
1	105	101	98	94	100	96	93	91	87	85	83	79	78	76	72	70	69	66	66	66	66
2	97	90	85	80	92	86	81	77	79	75	72	72	69	66	65	63	61	58	58	58	58
3	90	81	74	69	85	78	72	67	71	66	62	65	61	58	59	57	54	51	51	51	51
4	83	73	66	60	79	70	64	59	65	59	55	59	55	52	54	51	48	46	46	46	46
5	77	66	59	53	73	64	57	52	59	53	49	54	50	46	50	46	43	41	41	41	41
6	72	60	53	47	68	58	51	46	54	48	44	50	45	42	46	42	39	37	37	37	37
7	67	55	48	43	64	53	47	42	50	44	40	46	41	38	43	39	36	34	34	34	34
8	63	51	44	39	60	49	42	38	46	40	36	43	38	34	40	36	33	31	31	31	31
9	59	47	40	35	56	46	39	34	43	37	33	40	35	31	37	33	30	28	28	28	28
10	55	44	37	32	53	42	36	32	40	34	30	37	32	29	35	31	28	26	26	26	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15304	15304	15304
5°	15114	15058	15147
10°	14279	14408	14741
15°	13180	13488	14092
20°	11970	12419	13241
25°	10737	11321	12337
30°	9600	10227	11398
35°	8394	9000	10289
40°	7065	7626	8907
45°	5830	6333	7436
50°	4867	5306	6194
55°	4132	4554	5115
60°	3534	3949	4084
65°	2814	3321	2637
70°	2495	2592	1610
75°	2310	2103	987
80°	2125	1934	850
85°	1916	1778	699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	4.7
10°-20°	395.7	12.1
20°-30°	512.6	15.7
30°-40°	502.0	15.4
40°-50°	384.2	11.8
50°-60°	256.0	7.8
60°-70°	139.7	4.3
70°-80°	58.2	1.8
80°-90°	16.8	0.5
90°-100°	52.2	1.6
100°-110°	181.6	5.6
110°-120°	175.9	5.4
120°-130°	138.0	4.2
130°-140°	109.2	3.3
140°-150°	84.3	2.6
150°-160°	60.4	1.8
160°-170°	37.0	1.1
170°-180°	12.5	0.4
0°-30°	1060.5	32.4
0°-40°	1562.4	47.8
0°-60°	2202.6	67.4
0°-90°	2417.4	74.0
90°-120°	409.7	12.5
90°-150°	741.2	22.7
90°-180°	851.0	26.0
0°-180°	3268.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1632	1615	1626	1630	1636	152
15°	1380	1375	1412	1450	1475	385
25°	1055	1057	1112	1161	1212	485
35°	745	749	799	853	914	463
45°	447	455	485	522	570	348
55°	257	268	283	294	318	233
65°	129	140	152	133	121	134
75°	65	65	59	40	28	69
85°	18	18	17	11	7	20
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°	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1662.8	1648.0	1651.8	1651.6	1647.0
5°	1631.9	1615.3	1625.9	1629.7	1635.5
7.5°	1571.2	1558.9	1578.1	1592.3	1603.9
10°	1524.1	1513.4	1537.9	1558.7	1573.5
12.5°	1469.4	1460.3	1490.8	1518.4	1538.1
15°	1379.9	1375.0	1412.1	1450.4	1475.3
17.5°	1284.4	1281.9	1324.4	1369.2	1401.0
20°	1219.1	1218.4	1264.9	1311.7	1348.6
22.5°	1153.3	1154.8	1203.7	1252.4	1294.5
25°	1054.7	1057.4	1112.1	1160.6	1211.9
27.5°	963.4	964.7	1021.0	1072.3	1127.0
30°	901.1	904.6	960.0	1013.0	1069.9
32.5°	838.8	842.9	897.1	951.9	1009.9
35°	745.3	748.9	799.1	853.0	913.5
37.5°	648.9	653.8	698.4	749.2	808.9
40°	586.6	593.8	633.2	681.2	739.5
42.5°	526.6	535.5	572.1	617.6	670.1
45°	446.8	455.4	485.4	522.2	569.9
47.5°	378.1	388.0	411.1	442.7	483.4
50°	339.1	348.5	369.7	393.1	431.5
52.5°	304.8	314.0	333.0	351.1	383.9
55°	256.9	267.5	283.1	294.0	318.0
57.5°	217.6	227.9	240.2	245.0	259.7
60°	191.5	202.9	214.0	213.3	221.3
62.5°	167.5	177.3	188.4	180.5	181.0
65°	128.9	139.5	152.1	133.0	120.8
67.5°	104.1	106.3	119.3	92.8	78.3
70°	92.5	92.5	96.1	71.8	59.7
72.5°	81.4	81.4	78.1	58.3	45.6
75°	64.8	64.8	59.0	40.5	27.7
77.5°	49.9	49.4	45.1	30.1	20.1
80°	40.0	40.0	36.4	23.9	16.0
82.5°	31.3	31.3	28.2	18.6	11.8
85°	18.1	18.1	16.8	10.9	6.6
87.5°	6.5	6.5	5.8	3.4	2.9
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)