

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: P845351

Luminaire Tested: **SQ4P-WB-0U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P519276)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-0U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

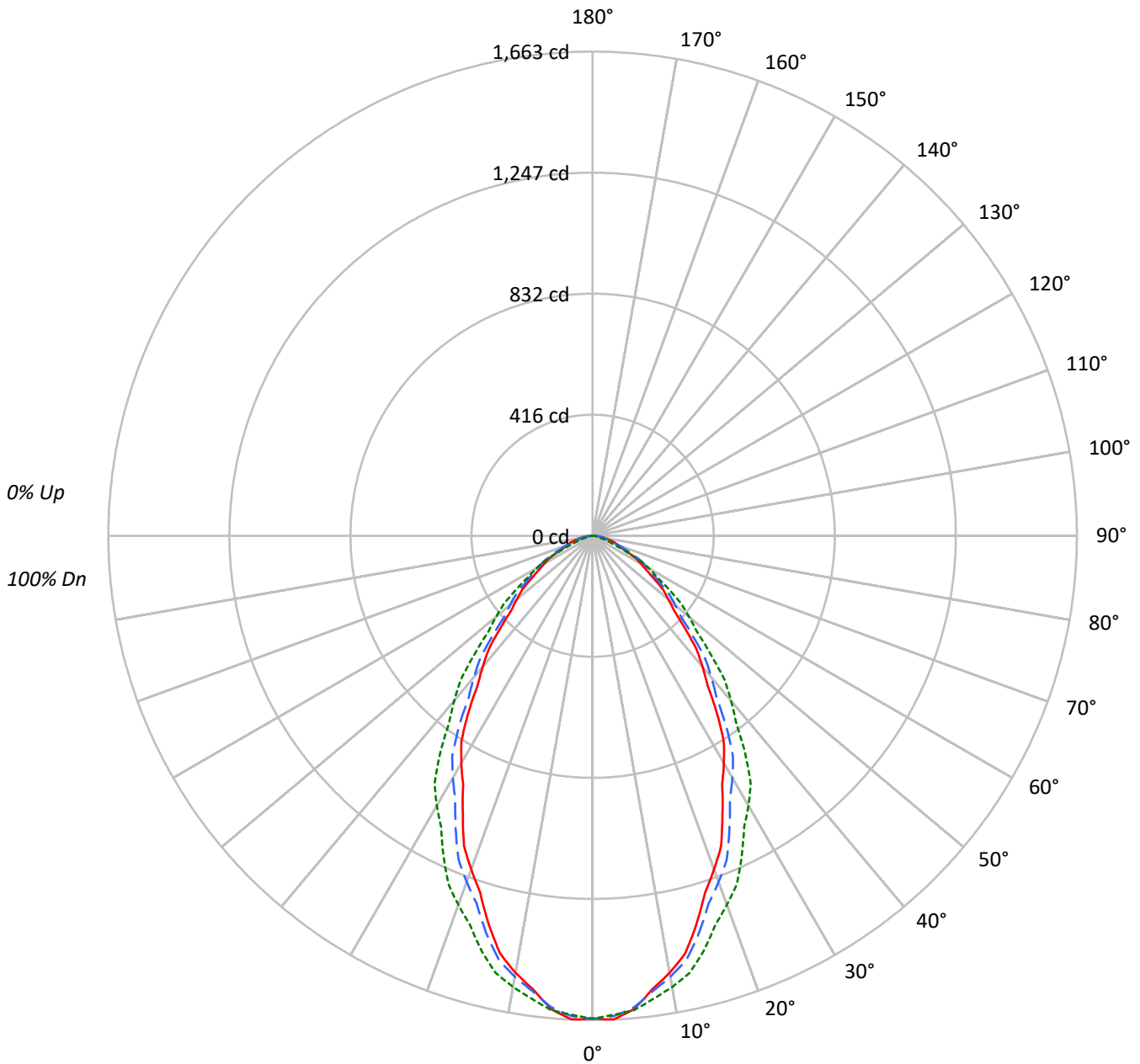
Lumens per Lamp: N/A
Luminaire Lumens: 2417.1 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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

TEST NUMBER: P845351

CATALOG NUMBER: SQ4P-WB-0U-075D-B35-1D-UNV

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78																			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69																			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62																			
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55																			
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50																			
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45																			
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

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	6.3
10°-20°	395.7	16.4
20°-30°	512.6	21.2
30°-40°	502.0	20.8
40°-50°	384.2	15.9
50°-60°	256.0	10.6
60°-70°	139.7	5.8
70°-80°	58.2	2.4
80°-90°	16.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1060.5	43.9
0°-40°	1562.4	64.6
0°-60°	2202.6	91.1
0°-90°	2417.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.1	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	21
90°	0	0	0	0	0	



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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°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)