

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562832

Luminaire Tested: **SQ4-PC3-0U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562832
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

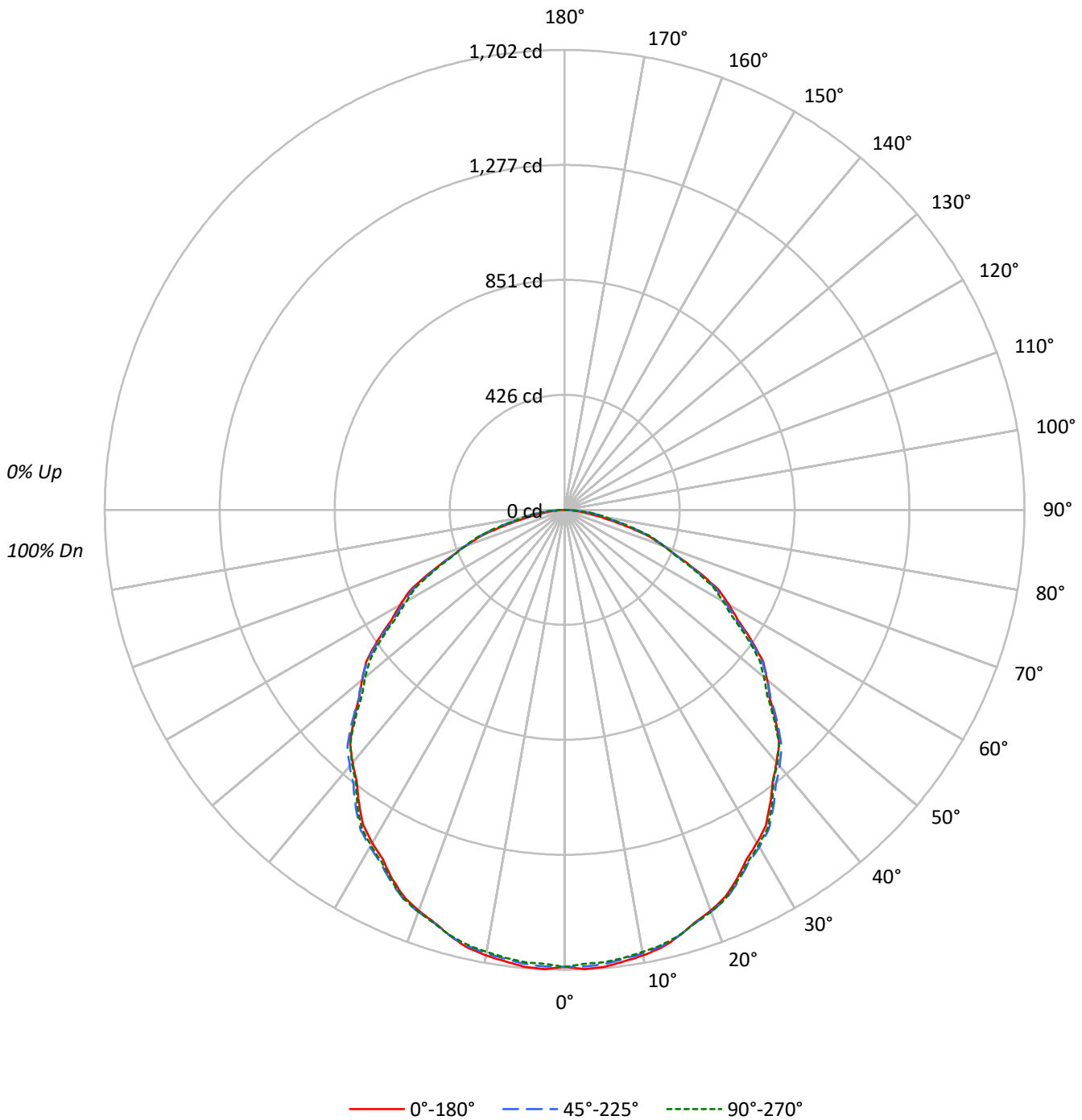
Lumens per Lamp: N/A
Luminaire Lumens: 4616.2 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): 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: 24 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85			85	
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71			71	
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60			60	
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51			51	
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44			44	
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39			39	
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34	
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28			28	
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7733	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5984	5864	5813
70°	5239	5280	5260
75°	4215	4661	4689
80°	2997	3953	3993
85°	1826	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	3.5
10°-20°	459.4	10.0
20°-30°	695.7	15.1
30°-40°	834.0	18.1
40°-50°	850.4	18.4
50°-60°	742.3	16.1
60°-70°	531.4	11.5
70°-80°	273.7	5.9
80°-90°	69.2	1.5
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°	1315.1	28.5
0°-40°	2149.1	46.6
0°-60°	3741.9	81.1
0°-90°	4616.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4616.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1698	1681	1687	1682	1680	161
15°	1634	1620	1634	1634	1632	461
25°	1508	1498	1519	1514	1514	694
35°	1326	1324	1347	1338	1338	830
45°	1106	1103	1114	1099	1096	851
55°	846	835	835	822	822	754
65°	548	536	537	532	532	542
75°	236	247	262	263	263	256
85°	34	53	63	64	63	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1701.5	1686.8	1691.4	1687.5	1681.4
5°	1697.7	1680.9	1686.7	1682.0	1680.5
7.5°	1685.5	1668.6	1676.4	1673.2	1671.7
10°	1674.2	1657.4	1666.4	1663.2	1661.7
12.5°	1659.2	1643.6	1653.8	1650.7	1650.4
15°	1633.5	1619.7	1633.5	1633.5	1631.9
17.5°	1601.2	1588.7	1603.4	1604.3	1603.4
20°	1578.7	1564.9	1583.4	1581.8	1583.4
22.5°	1551.1	1539.8	1559.6	1555.5	1557.1
25°	1508.2	1497.5	1519.2	1514.5	1514.5
27.5°	1457.5	1449.8	1473.4	1468.4	1468.4
30°	1423.6	1416.0	1440.9	1434.6	1434.6
32.5°	1386.0	1380.8	1404.5	1397.0	1397.0
35°	1326.5	1323.5	1346.9	1337.5	1337.5
37.5°	1265.1	1262.4	1283.6	1272.3	1268.6
40°	1220.0	1218.5	1237.3	1224.7	1224.7
42.5°	1174.9	1173.4	1189.6	1174.6	1174.6
45°	1105.7	1102.6	1113.5	1099.4	1096.3
47.5°	1030.2	1027.1	1034.0	1018.6	1017.1
50°	978.8	975.8	978.8	964.7	963.2
52.5°	926.2	920.7	921.2	907.1	906.8
55°	845.7	835.0	834.8	822.2	822.2
57.5°	760.5	746.4	747.7	737.0	735.5
60°	701.6	686.3	687.5	678.1	676.6
62.5°	644.0	626.2	629.9	619.2	618.9
65°	548.2	535.9	537.2	532.5	532.5
67.5°	456.1	444.7	452.9	449.2	448.9
70°	388.4	380.7	391.5	391.5	390.0
72.5°	325.8	325.5	338.9	338.9	339.9
75°	236.5	247.2	261.5	263.1	263.1
77.5°	157.9	176.9	192.6	193.3	192.9
80°	112.8	134.2	148.8	151.9	150.3
82.5°	76.4	99.1	111.2	114.3	112.8
85°	34.5	52.8	62.6	64.2	62.6
87.5°	10.0	21.0	25.1	25.0	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)