

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: P561582

Luminaire Tested: **SQ4-PC3-0U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561582
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-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2905.4 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

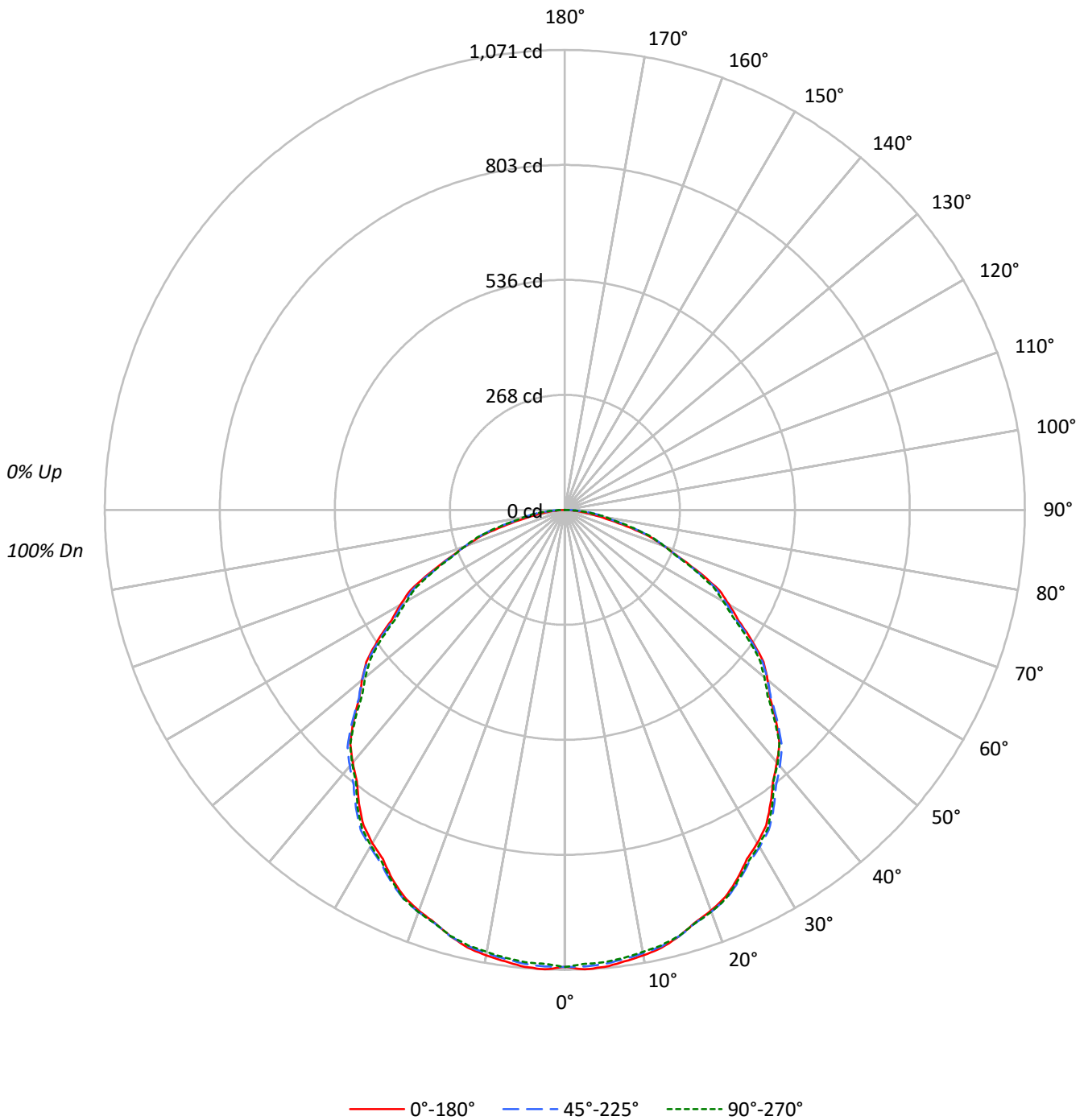
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9821	9821	9821
5°	9896	9832	9795
10°	9872	9826	9798
15°	9820	9820	9811
20°	9755	9784	9784
25°	9663	9733	9704
30°	9546	9661	9619
35°	9404	9548	9481
40°	9249	9379	9283
45°	9080	9144	9003
50°	8843	8843	8701
55°	8562	8451	8324
60°	8149	7984	7857
65°	7532	7381	7316
70°	6596	6647	6620
75°	5304	5868	5903
80°	3772	4973	5026
85°	2297	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	3.5
10°-20°	289.1	10.0
20°-30°	437.8	15.1
30°-40°	524.9	18.1
40°-50°	535.2	18.4
50°-60°	467.2	16.1
60°-70°	334.5	11.5
70°-80°	172.3	5.9
80°-90°	43.6	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°	827.7	28.5
0°-40°	1352.6	46.6
0°-60°	2355.1	81.1
0°-90°	2905.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1068	1058	1062	1059	1058	101
15°	1028	1019	1028	1028	1027	290
25°	949	942	956	953	953	437
35°	835	833	848	842	842	522
45°	696	694	701	692	690	536
55°	532	526	525	518	518	475
65°	345	337	338	335	335	341
75°	149	156	165	166	166	161
85°	22	33	39	40	39	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1070.9	1061.6	1064.5	1062.1	1058.2
5°	1068.5	1057.9	1061.6	1058.6	1057.6
7.5°	1060.8	1050.2	1055.1	1053.1	1052.1
10°	1053.7	1043.1	1048.8	1046.8	1045.8
12.5°	1044.2	1034.4	1040.9	1038.9	1038.7
15°	1028.1	1019.4	1028.1	1028.1	1027.1
17.5°	1007.8	999.9	1009.2	1009.7	1009.2
20°	993.6	984.9	996.5	995.6	996.5
22.5°	976.2	969.1	981.6	979.0	980.0
25°	949.2	942.5	956.1	953.2	953.2
27.5°	917.3	912.5	927.3	924.2	924.2
30°	896.0	891.2	906.8	902.9	902.9
32.5°	872.3	869.1	884.0	879.2	879.2
35°	834.9	833.0	847.7	841.8	841.8
37.5°	796.2	794.5	807.9	800.7	798.4
40°	767.9	766.9	778.7	770.8	770.8
42.5°	739.5	738.5	748.7	739.3	739.3
45°	695.9	694.0	700.8	691.9	690.0
47.5°	648.4	646.5	650.8	641.1	640.1
50°	616.1	614.1	616.1	607.2	606.2
52.5°	582.9	579.5	579.8	570.9	570.7
55°	532.3	525.5	525.4	517.5	517.5
57.5°	478.7	469.8	470.6	463.8	462.9
60°	441.6	432.0	432.7	426.8	425.8
62.5°	405.3	394.1	396.4	389.7	389.5
65°	345.0	337.3	338.1	335.1	335.1
67.5°	287.0	279.9	285.1	282.7	282.5
70°	244.5	239.6	246.4	246.4	245.4
72.5°	205.0	204.8	213.3	213.3	213.9
75°	148.8	155.6	164.6	165.6	165.6
77.5°	99.4	111.3	121.2	121.6	121.4
80°	71.0	84.5	93.6	95.6	94.6
82.5°	48.1	62.4	70.0	71.9	71.0
85°	21.7	33.3	39.4	40.4	39.4
87.5°	6.3	13.2	15.8	15.7	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)