

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: P562538

Luminaire Tested: **SQ4-PC3-025U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562538
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

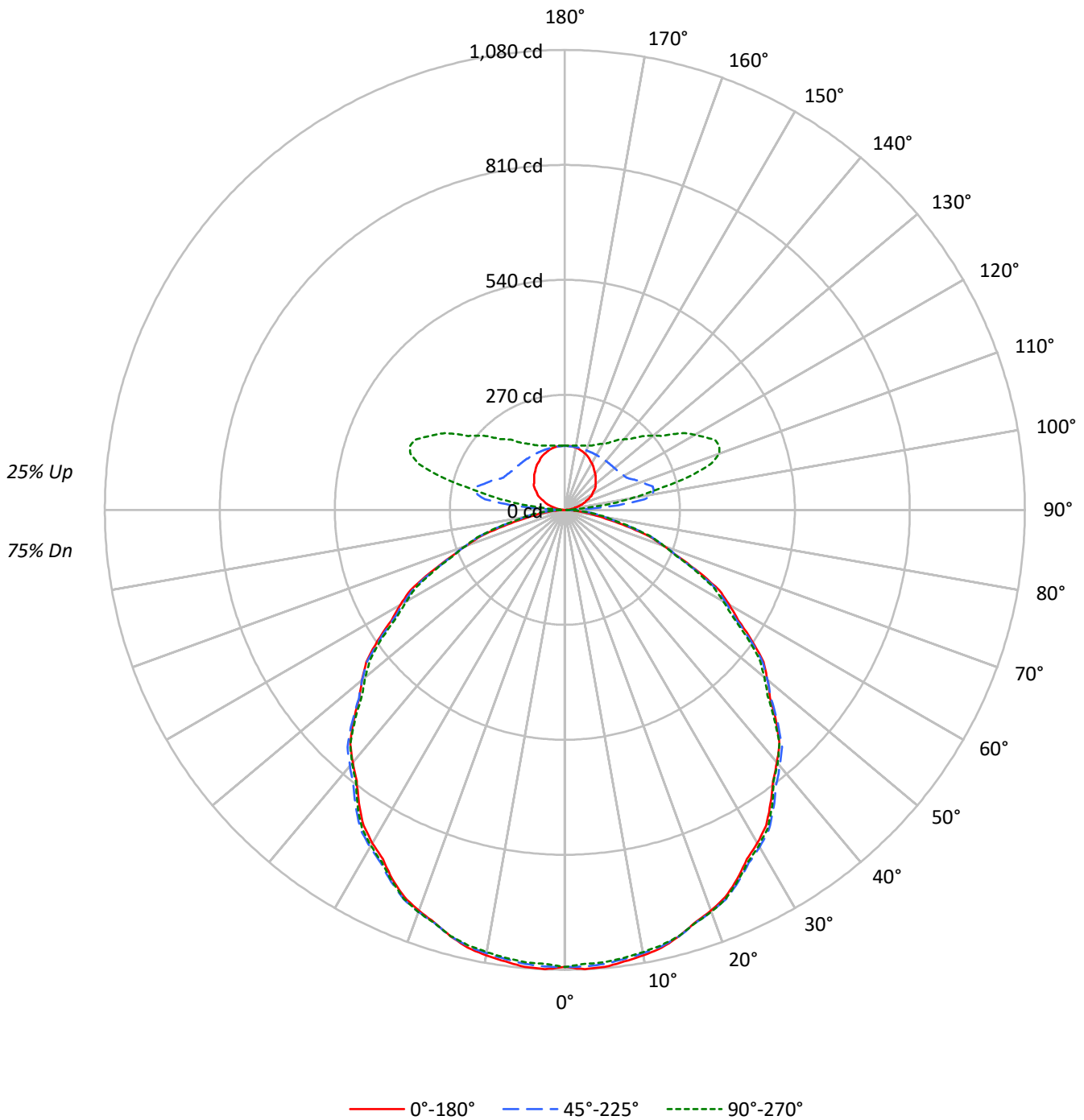
Lumens per Lamp: N/A
Luminaire Lumens: 3906.2 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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									
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	108	108	108	108	97	97	97	88	88	88	79	79	79	75																			
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63																			
2	94	87	80	75	89	83	77	72	75	70	67	68	65	61	62	59	57	53																			
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45																			
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38																			
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33																			
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29																			
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26																			
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23																			
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21																			
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9877
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9560
40°	9326	9457	9362
45°	9156	9221	9079
50°	8916	8916	8774
55°	8633	8522	8393
60°	8217	8053	7923
65°	7595	7442	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3804	5016	5069
85°	2318	4213	4213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	2.6
10°-20°	291.5	7.5
20°-30°	441.5	11.3
30°-40°	529.3	13.6
40°-50°	539.7	13.8
50°-60°	471.1	12.1
60°-70°	337.3	8.6
70°-80°	173.7	4.4
80°-90°	44.7	1.1
90°-100°	73.4	1.9
100°-110°	192.9	4.9
110°-120°	200.0	5.1
120°-130°	160.4	4.1
130°-140°	125.9	3.2
140°-150°	96.6	2.5
150°-160°	69.6	1.8
160°-170°	42.6	1.1
170°-180°	14.4	0.4
0°-30°	834.6	21.4
0°-40°	1363.9	34.9
0°-60°	2374.8	60.8
0°-90°	2930.5	75.0
90°-120°	466.2	11.9
90°-150°	849.1	21.7
90°-180°	976.0	25.0
0°-180°	3906.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1078	1067	1070	1068	1066	102
15°	1037	1028	1037	1037	1036	292
25°	957	950	964	961	961	441
35°	842	840	855	849	849	527
45°	702	700	707	698	696	540
55°	537	530	530	522	522	478
65°	348	340	341	338	338	344
75°	150	157	166	167	167	162
85°	22	34	40	41	40	30
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1079.8	1070.5	1073.5	1071.0	1067.1
5°	1077.5	1066.8	1070.5	1067.5	1066.5
7.5°	1069.7	1059.0	1063.9	1061.9	1061.0
10°	1062.5	1051.9	1057.6	1055.6	1054.6
12.5°	1053.0	1043.1	1049.6	1047.6	1047.4
15°	1036.7	1028.0	1036.7	1036.7	1035.7
17.5°	1016.2	1008.3	1017.6	1018.2	1017.6
20°	1001.9	993.2	1004.9	1003.9	1004.9
22.5°	984.4	977.2	989.8	987.2	988.2
25°	957.2	950.4	964.1	961.2	961.2
27.5°	925.0	920.1	935.1	931.9	931.9
30°	903.5	898.7	914.4	910.5	910.5
32.5°	879.7	876.4	891.4	886.6	886.6
35°	841.9	839.9	854.8	848.8	848.8
37.5°	802.9	801.2	814.7	807.4	805.1
40°	774.3	773.3	785.2	777.3	777.3
42.5°	745.7	744.7	755.0	745.5	745.5
45°	701.7	699.8	706.7	697.7	695.8
47.5°	653.8	651.9	656.2	646.5	645.5
50°	621.2	619.3	621.2	612.3	611.3
52.5°	587.8	584.3	584.6	575.7	575.5
55°	536.7	529.9	529.8	521.8	521.8
57.5°	482.7	473.7	474.5	467.7	466.8
60°	445.3	435.6	436.4	430.4	429.4
62.5°	408.7	397.4	399.8	393.0	392.8
65°	347.9	340.1	340.9	337.9	337.9
67.5°	289.4	282.3	287.5	285.1	284.9
70°	246.5	241.6	248.5	248.5	247.5
72.5°	206.7	206.6	215.1	215.1	215.7
75°	150.1	156.9	166.0	167.0	167.0
77.5°	100.2	112.2	122.3	122.7	122.5
80°	71.6	85.2	94.4	96.4	95.4
82.5°	48.5	62.9	70.6	72.5	71.6
85°	21.9	33.5	39.8	40.7	39.8
87.5°	6.6	13.9	17.4	16.6	15.1
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)