

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: P563270

Luminaire Tested: **SQ4-PP3-025U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563270
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

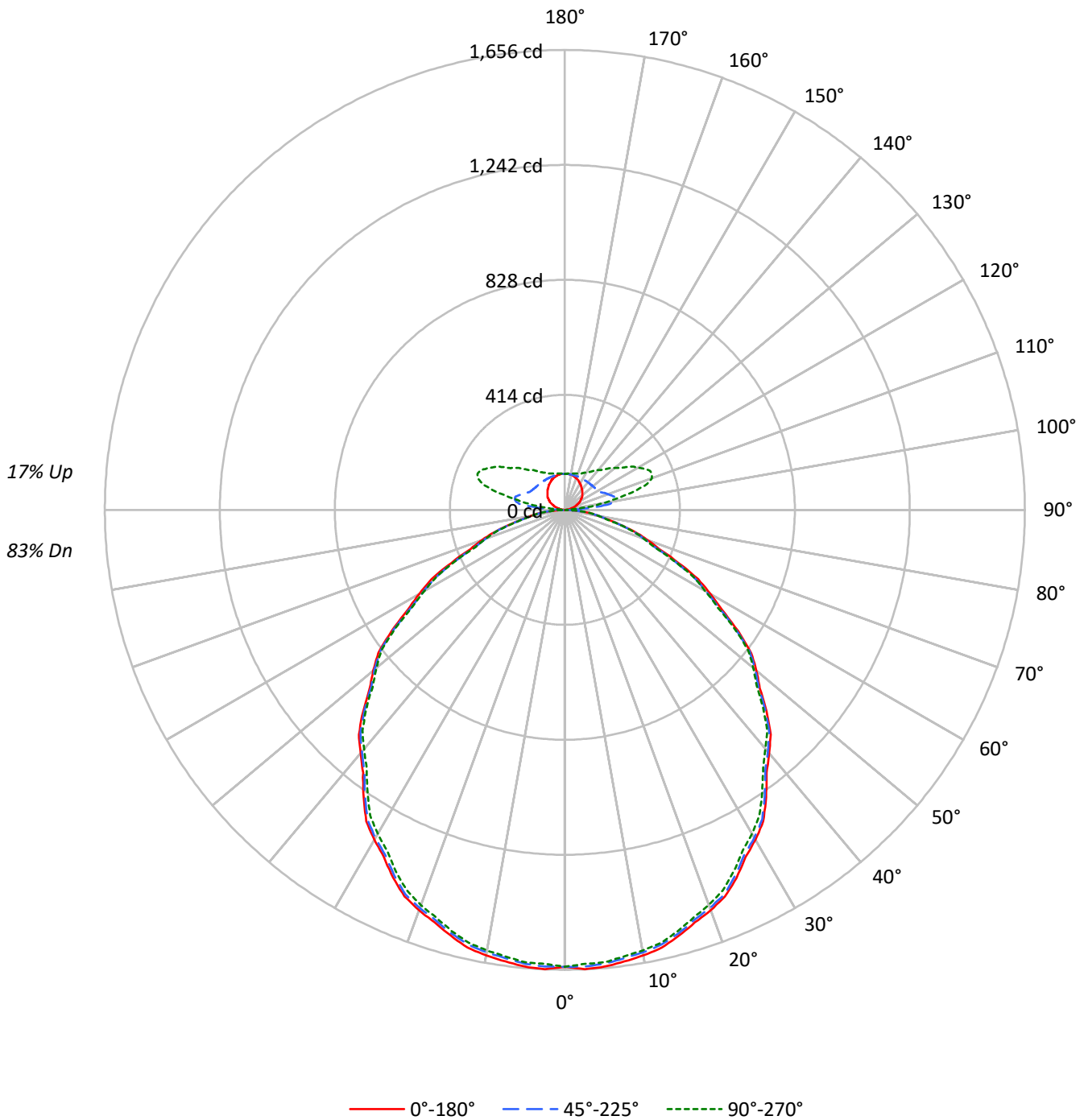
Lumens per Lamp: N/A
Luminaire Lumens: 5055.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	83	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	65	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	54	50	46	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	44	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	43	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	32	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15158	15091
15°	15166	15083	15001
20°	15065	14981	14867
25°	14886	14783	14637
30°	14610	14534	14349
35°	14229	14131	13953
40°	13773	13687	13530
45°	13398	13304	13172
50°	12917	12833	12710
55°	12247	12085	11993
60°	11149	10830	10778
65°	9822	9414	9381
70°	8481	8130	8130
75°	7301	7197	7094
80°	6434	6514	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.1
10°-20°	444.3	8.8
20°-30°	665.5	13.2
30°-40°	780.5	15.4
40°-50°	783.0	15.5
50°-60°	668.0	13.2
60°-70°	435.6	8.6
70°-80°	218.6	4.3
80°-90°	61.2	1.2
90°-100°	63.4	1.3
100°-110°	166.7	3.3
110°-120°	172.9	3.4
120°-130°	138.7	2.7
130°-140°	108.8	2.2
140°-150°	83.5	1.7
150°-160°	60.2	1.2
160°-170°	36.8	0.7
170°-180°	12.4	0.2
0°-30°	1265.3	25.0
0°-40°	2045.9	40.5
0°-60°	3496.8	69.2
0°-90°	4212.1	83.3
90°-120°	403.0	8.0
90°-150°	734.0	14.5
90°-180°	843.0	16.7
0°-180°	5055.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1651	1636	1641	1635	1635	157
15°	1588	1572	1579	1573	1570	448
25°	1462	1445	1452	1439	1438	672
35°	1263	1251	1255	1240	1239	789
45°	1027	1020	1020	1010	1010	791
55°	761	759	751	747	746	677
65°	450	442	431	428	430	449
75°	205	205	202	200	199	222
85°	48	52	52	52	52	56
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

TEST NUMBER: P563270

CATALOG NUMBER: SQ4-PP3-025U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.4	1645.4	1645.4	1645.4	1645.4
2.5°	1655.8	1642.3	1645.4	1643.0	1636.2
5°	1651.2	1635.7	1641.1	1635.4	1635.4
7.5°	1640.0	1623.0	1628.4	1622.7	1622.4
10°	1629.6	1612.7	1618.0	1612.2	1610.8
12.5°	1614.6	1597.7	1604.2	1597.3	1597.0
15°	1587.8	1572.3	1579.1	1573.3	1570.5
17.5°	1557.5	1540.6	1548.8	1540.7	1539.6
20°	1534.4	1517.5	1525.8	1514.2	1514.2
22.5°	1506.7	1489.8	1499.2	1484.2	1484.2
25°	1462.3	1445.4	1452.2	1439.2	1437.8
27.5°	1409.5	1392.9	1400.0	1385.3	1385.0
30°	1371.4	1355.9	1364.2	1348.3	1346.9
32.5°	1329.9	1315.5	1321.6	1305.7	1304.2
35°	1263.3	1250.6	1254.6	1240.2	1238.8
37.5°	1193.2	1180.2	1184.8	1172.4	1171.9
40°	1143.6	1135.1	1136.4	1126.2	1123.4
42.5°	1097.4	1087.9	1089.1	1079.0	1078.4
45°	1026.8	1019.7	1019.6	1009.5	1009.5
47.5°	951.8	946.4	944.9	936.5	936.2
50°	899.9	895.6	894.1	886.9	885.5
52.5°	845.7	843.7	838.7	832.7	832.4
55°	761.4	758.6	751.3	747.0	745.6
57.5°	670.0	664.4	656.2	649.8	651.0
60°	604.2	598.6	586.9	584.1	584.1
62.5°	540.8	534.0	522.3	518.3	520.6
65°	449.9	441.5	431.2	428.3	429.7
67.5°	367.5	359.8	348.7	348.7	347.5
70°	314.4	310.2	301.4	301.4	301.4
72.5°	267.1	265.1	258.7	258.7	257.6
75°	204.8	204.8	201.9	200.4	199.0
77.5°	153.4	154.0	152.6	151.1	148.5
80°	121.1	124.0	122.6	121.1	119.7
82.5°	91.1	94.0	93.7	91.1	90.9
85°	47.6	51.8	51.9	51.9	51.9
87.5°	12.9	17.7	19.8	19.2	20.3
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7

TEST NUMBER: P563270

CATALOG NUMBER: SQ4-PP3-025U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)