

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: P562064

Luminaire Tested: **SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562064
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

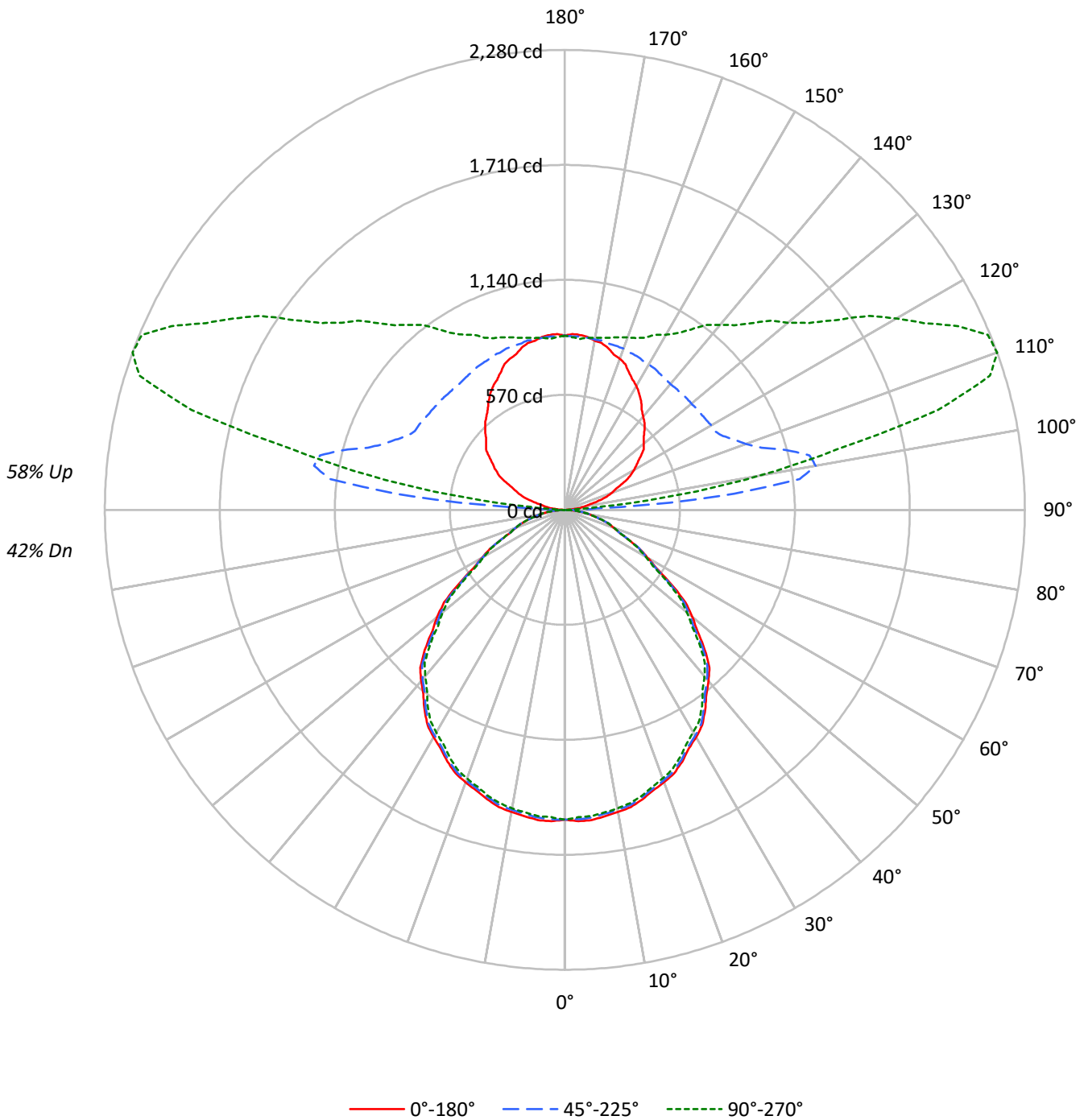
Lumens per Lamp: N/A
Luminaire Lumens: 9201.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.9
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				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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	38	37	35	30
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	56	46	39	34	39	33	30	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	49	38	31	27	32	27	23	26	22	20	21	18	16	14
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14168	14168	14168
5°	14295	14185	14111
10°	14250	14150	14076
15°	14187	14098	14023
20°	14116	14024	13920
25°	14016	13922	13760
30°	13866	13766	13569
35°	13660	13542	13348
40°	13348	13205	12967
45°	12805	12581	12321
50°	11846	11562	11333
55°	10340	10105	9893
60°	8713	8639	8468
65°	7536	7564	7508
70°	6922	6957	6957
75°	6648	6648	6695
80°	6254	6323	6254
85°	5039	5600	5600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	1.6
10°-20°	415.5	4.5
20°-30°	626.6	6.8
30°-40°	746.6	8.1
40°-50°	736.1	8.0
50°-60°	562.6	6.1
60°-70°	348.2	3.8
70°-80°	197.7	2.1
80°-90°	60.1	0.7
90°-100°	393.4	4.3
100°-110°	1119.5	12.2
110°-120°	1072.5	11.7
120°-130°	848.9	9.2
130°-140°	681.4	7.4
140°-150°	533.4	5.8
150°-160°	390.3	4.2
160°-170°	241.8	2.6
170°-180°	82.0	0.9
0°-30°	1187.3	12.9
0°-40°	1934.0	21.0
0°-60°	3232.7	35.1
0°-90°	3838.7	41.7
90°-120°	2585.4	28.1
90°-150°	4649.1	50.5
90°-180°	5363.0	58.3
0°-180°	9201.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1544	1527	1532	1526	1524	146
15°	1485	1470	1476	1471	1468	419
25°	1377	1360	1368	1353	1352	634
35°	1213	1199	1202	1186	1185	757
45°	981	968	964	947	944	752
55°	643	632	628	618	615	576
65°	345	343	346	344	344	350
75°	186	186	186	188	188	197
85°	48	50	53	53	53	55
90°	0	0	0	0	0	4
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

TEST NUMBER: P562064

CATALOG NUMBER: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.6	1535.6	1535.6	1535.6	1535.6
2.5°	1545.1	1531.6	1535.6	1532.2	1525.0
5°	1543.5	1526.7	1531.6	1526.2	1523.6
7.5°	1531.6	1515.0	1519.9	1514.6	1513.1
10°	1521.0	1505.5	1510.4	1505.1	1502.5
12.5°	1509.4	1492.8	1498.8	1492.4	1489.8
15°	1485.3	1469.8	1476.0	1470.7	1468.1
17.5°	1458.8	1442.3	1448.5	1442.4	1439.0
20°	1437.7	1422.2	1428.4	1419.1	1417.8
22.5°	1414.4	1398.9	1405.1	1392.7	1392.4
25°	1376.8	1360.0	1367.6	1353.0	1351.7
27.5°	1332.1	1316.6	1322.9	1308.0	1306.5
30°	1301.5	1285.9	1292.2	1276.3	1273.7
32.5°	1266.5	1252.0	1257.3	1241.4	1239.8
35°	1212.8	1198.6	1202.3	1186.4	1185.1
37.5°	1151.7	1138.8	1140.9	1123.4	1122.1
40°	1108.3	1095.4	1096.4	1077.9	1076.6
42.5°	1060.7	1047.8	1046.7	1028.2	1026.9
45°	981.4	968.4	964.2	946.9	944.3
47.5°	890.9	878.0	870.0	856.0	854.1
50°	825.3	812.4	805.5	793.5	789.6
52.5°	754.4	741.5	735.6	724.7	720.8
55°	642.8	632.4	628.2	617.6	615.0
57.5°	536.7	529.7	528.5	518.2	517.1
60°	472.2	468.3	468.2	458.9	458.9
62.5°	417.2	414.3	416.4	410.3	409.2
65°	345.2	342.6	346.5	343.9	343.9
67.5°	288.3	288.3	290.7	289.7	289.7
70°	256.6	256.6	257.9	257.9	257.9
72.5°	228.0	227.0	230.4	230.4	229.3
75°	186.5	186.5	186.5	187.8	187.8
77.5°	145.2	145.5	146.5	146.3	145.2
80°	117.7	119.0	119.0	117.7	117.7
82.5°	90.2	91.5	91.5	91.2	90.2
85°	47.6	50.2	52.9	52.9	52.9
87.5°	13.8	17.9	21.2	21.1	20.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

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CATALOG NUMBER: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)