

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P518275

Luminaire Tested: HVL8-8-LD4-3LO-40-UNV-C-EDD-90

Issue Date: 4/27/2021

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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Test Information

Test Method: LM-79-2019
Report Number: P518275
Test Lab: INNOVATION CENTER
Issue Date: 4/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: HVL8-8-LD4-3LO-40-UNV-C-EDD-90
Description: 8 FOOT, 8 INCH WIDE, HVL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17260.9 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.32 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

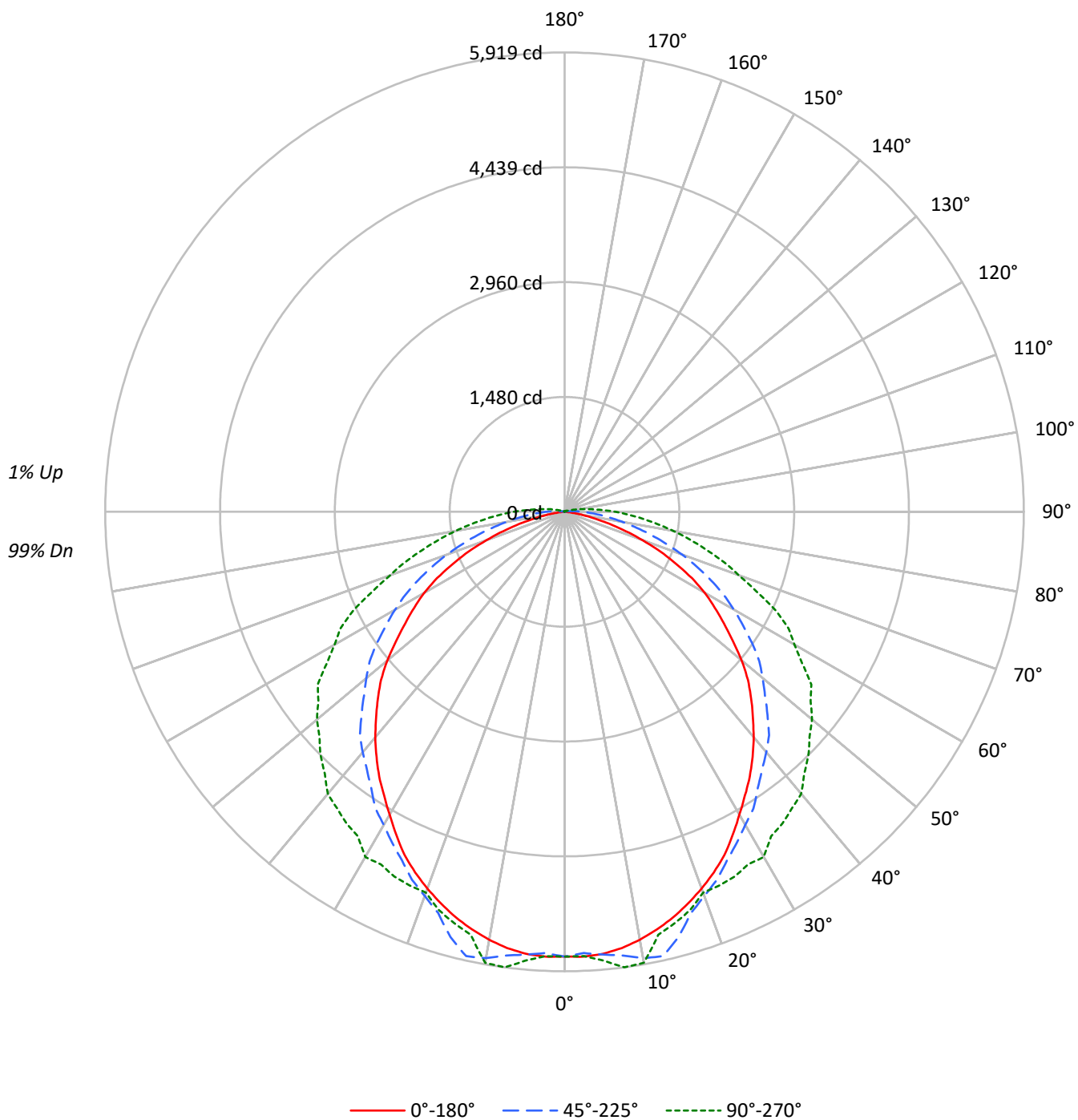
Input Watts (W): 134.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	P3	10/30/2015	4/30/2016
Power Meter	IN0214	1/12/2016	1/12/2017
AC Power Source	IN0062	1/12/2016	1/12/2017
DC Power Supply	--	--	--
Room Thermometer	IN0145	1/13/2016	1/13/2017

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CATALOG NUMBER: HVL8-8-LD4-3LO-40-UNV-C-EDD-90

Luminous Intensity Polar Plot



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.7	3.2
10°-20°	1568.2	9.1
20°-30°	2333.4	13.5
30°-40°	2804.7	16.2
40°-50°	2952.1	17.1
50°-60°	2739.2	15.9
60°-70°	2165.8	12.5
70°-80°	1322.9	7.7
80°-90°	576.4	3.3
90°-100°	179.4	1.0
100°-110°	40.3	0.2
110°-120°	16.2	0.1
120°-130°	9.1	0.1
130°-140°	2.4	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°	4452.3	25.8
0°-40°	7256.9	42.0
0°-60°	12948.3	75.0
0°-90°	17013.4	98.6
90°-120°	235.9	1.4
90°-150°	247.5	1.4
90°-180°	247.0	1.4
0°-180°	17260.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5730	5730	5730	5730	5730	
5°	5716	5704	5724	5788	5804	542
15°	5410	5618	5672	5485	5488	1524
25°	4880	5192	4955	5103	5186	2240
35°	4163	4279	4343	4738	4899	2602
45°	3402	3418	3699	4285	4445	2623
55°	2506	2547	2951	3596	3882	2252
65°	1586	1636	2079	2751	3001	1571
75°	600	795	1159	1781	1893	655
85°	54	187	452	877	1006	83
90°	1	56	237	556	655	3
95°	1	14	104	305	372	1
105°	1	8	21	60	84	2
115°	1	5	16	27	28	2
125°	1	2	7	18	24	2
135°	2	2	2	6	8	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P518275

CATALOG NUMBER: HVL8-8-LD4-3LO-40-UNV-C-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5729.7	5729.7	5729.7	5729.7	5729.7
2.5°	5736.7	5721.5	5690.0	5720.4	5728.5
5°	5715.7	5704.0	5723.9	5788.1	5804.4
7.5°	5667.9	5712.2	5764.7	5881.4	5918.8
10°	5596.7	5680.7	5838.3	5937.5	5899.0
12.5°	5510.3	5652.7	5863.9	5670.2	5580.3
15°	5409.9	5617.7	5672.5	5484.6	5488.1
17.5°	5292.0	5588.5	5419.2	5414.6	5380.7
20°	5164.8	5490.4	5266.3	5257.0	5220.8
22.5°	5028.2	5360.9	5130.9	5112.3	5210.3
25°	4880.0	5191.6	4954.7	5102.9	5185.8
27.5°	4694.4	4969.9	4807.6	5017.7	5121.6
30°	4506.5	4741.1	4657.1	4950.0	5134.4
32.5°	4330.3	4501.8	4533.3	4924.4	4954.7
35°	4163.4	4278.9	4343.1	4737.6	4898.7
37.5°	3980.1	4011.6	4182.0	4659.4	4814.6
40°	3793.4	3773.5	4046.6	4531.0	4745.8
42.5°	3592.6	3585.6	3903.1	4466.8	4574.2
45°	3402.3	3417.5	3698.8	4284.7	4444.6
47.5°	3207.4	3227.3	3505.1	4085.1	4283.6
50°	2981.0	3006.7	3332.3	3907.7	4163.4
52.5°	2735.9	2784.9	3164.2	3739.7	3997.6
55°	2505.9	2546.8	2950.6	3596.1	3882.1
57.5°	2295.9	2320.4	2730.0	3415.2	3631.1
60°	2089.3	2095.1	2522.3	3214.4	3421.0
62.5°	1852.3	1862.8	2308.7	2977.5	3254.1
65°	1586.2	1636.4	2078.8	2751.1	3000.8
67.5°	1337.6	1425.1	1844.2	2543.3	2674.0
70°	1071.5	1219.7	1614.2	2299.4	2391.6
72.5°	827.5	1001.4	1378.4	2026.2	2155.8
75°	599.9	794.9	1159.0	1781.1	1893.2
77.5°	403.8	602.3	953.6	1510.3	1658.6
80°	241.6	440.0	770.3	1259.4	1426.3
82.5°	123.7	295.3	597.6	1056.3	1205.7
85°	53.7	186.7	451.7	876.6	1006.1
87.5°	15.2	106.2	332.6	708.5	818.2
90°	1.2	56.0	236.9	555.6	654.8
92.5°	1.2	26.8	166.9	420.2	496.1
95°	1.2	14.0	103.9	304.6	372.3
97.5°	1.2	8.2	63.0	215.9	273.1
100°	1.2	7.0	37.3	143.6	194.9
102.5°	1.2	8.2	25.7	91.0	127.2
105°	1.2	8.2	21.0	59.5	84.0
107.5°	2.3	8.2	18.7	44.4	58.4
110°	1.2	7.0	19.8	33.8	45.5

TEST NUMBER: P518275

CATALOG NUMBER: HVL8-8-LD4-3LO-40-UNV-C-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	5.8	18.7	28.0	33.8
115°	1.2	4.7	16.3	26.8	28.0
117.5°	2.3	3.5	12.8	26.8	28.0
120°	2.3	2.3	10.5	25.7	29.2
122.5°	2.3	2.3	8.2	23.3	28.0
125°	1.2	2.3	7.0	17.5	24.5
127.5°	2.3	2.3	5.8	14.0	18.7
130°	2.3	2.3	4.7	10.5	14.0
132.5°	2.3	2.3	3.5	8.2	10.5
135°	2.3	2.3	2.3	5.8	8.2
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)