

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: 767213

Luminaire Tested: **MHVWPP175H120**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 767213
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MHVWPP175H120
Description: FAIL-SAFE
Light Source: 175W MH CL MED 14000 LUMENS
Ballast/Driver: -

Summary

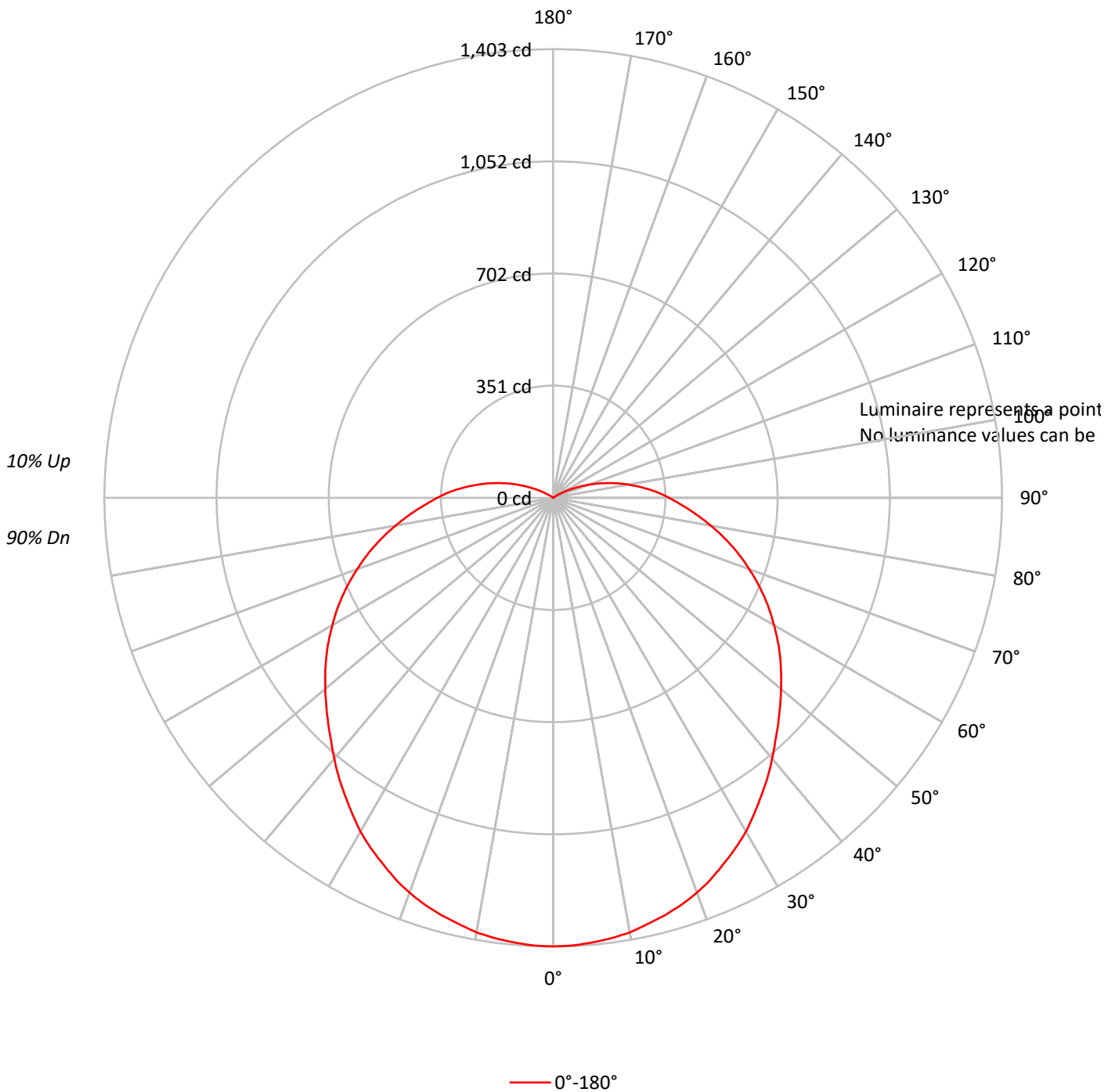
Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 5743.6 lumens
Efficiency: 41.0%
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.42
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Semi-Direct

Input Watts (W): 175
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: 25 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	48	48	48	48	46	46	46	46	43	43	43	40	40	40	38	38	38	37
1	42	40	37	35	41	38	36	34	36	34	33	33	32	31	31	30	29	28
2	38	34	31	28	36	33	30	27	31	28	26	28	26	25	27	25	23	22
3	34	29	26	23	33	28	25	22	26	24	21	25	22	20	23	21	19	18
4	31	26	22	19	30	25	21	18	23	20	18	22	19	17	20	18	16	15
5	29	23	19	16	27	22	18	16	21	18	15	19	17	15	18	16	14	13
6	26	21	17	14	25	20	16	14	19	15	13	18	15	13	17	14	12	11
7	24	19	15	12	23	18	14	12	17	14	11	16	13	11	15	13	11	10
8	23	17	13	11	22	16	13	11	15	12	10	15	12	10	14	11	10	9
9	21	15	12	10	20	15	12	9	14	11	9	13	11	9	13	10	9	8
10	20	14	11	9	19	14	11	8	13	10	8	12	10	8	12	9	8	7

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	132.8	2.3	0.9	0°	1403	
10°-20°	381.5	6.6	2.7	5°	1396	133
20°-30°	582.5	10.1	4.2	15°	1351	382
30°-40°	711.5	12.4	5.1	25°	1262	582
40°-50°	769.6	13.4	5.5	35°	1135	711
50°-60°	774.8	13.5	5.5	45°	995	770
60°-70°	719.8	12.5	5.1	55°	866	775
70°-80°	609.6	10.6	4.4	65°	727	720
80°-90°	467.3	8.1	3.3	75°	577	610
90°-100°	328.0	5.7	2.3	85°	427	364
100°-110°	189.2	3.3	1.4	90°	362	199
110°-120°	71.1	1.2	0.5	95°	301	233
120°-130°	5.9	0.1	0.0	105°	177	189
130°-140°	0.0	0.0	0.0	115°	69	71
140°-150°	0.0	0.0	0.0	125°	1	6
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	1096.8	19.1	7.8	165°	0	0
0°-40°	1808.2	31.5	12.9	175°	0	0
0°-60°	3352.7	58.4	23.9	180°	0	0
0°-90°	5149.4	89.7	36.8			
90°-120°	588.3	10.2	4.2			
90°-150°	594.2	10.3	4.2			
90°-180°	594.0	10.3	4.2			
0°-180°	5743.6	100.0	41.0			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1403
2.5°	1401
5°	1396
7.5°	1389
10°	1380
12.5°	1365
15°	1351
17.5°	1334
20°	1314
22.5°	1290
25°	1262
27.5°	1235
30°	1205
32.5°	1170
35°	1135
37.5°	1101
40°	1065
42.5°	1028
45°	995
47.5°	962
50°	930
52.5°	898
55°	866
57.5°	832
60°	797
62.5°	763
65°	727
67.5°	690
70°	652
72.5°	615
75°	577
77.5°	539
80°	500
82.5°	463
85°	427
87.5°	393
90°	362
92.5°	332
95°	301
97.5°	269
100°	238
102.5°	208
105°	177
107.5°	149
110°	121



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	94
115°	69
117.5°	47
120°	27
122.5°	11
125°	1
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)