

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: 767215

Luminaire Tested: **MHTWPP100H120**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 767215
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MHTWPP100H120
Description: FAIL-SAFE
Light Source: 100W MH CL MED 8500 LUMENS
Ballast/Driver: -

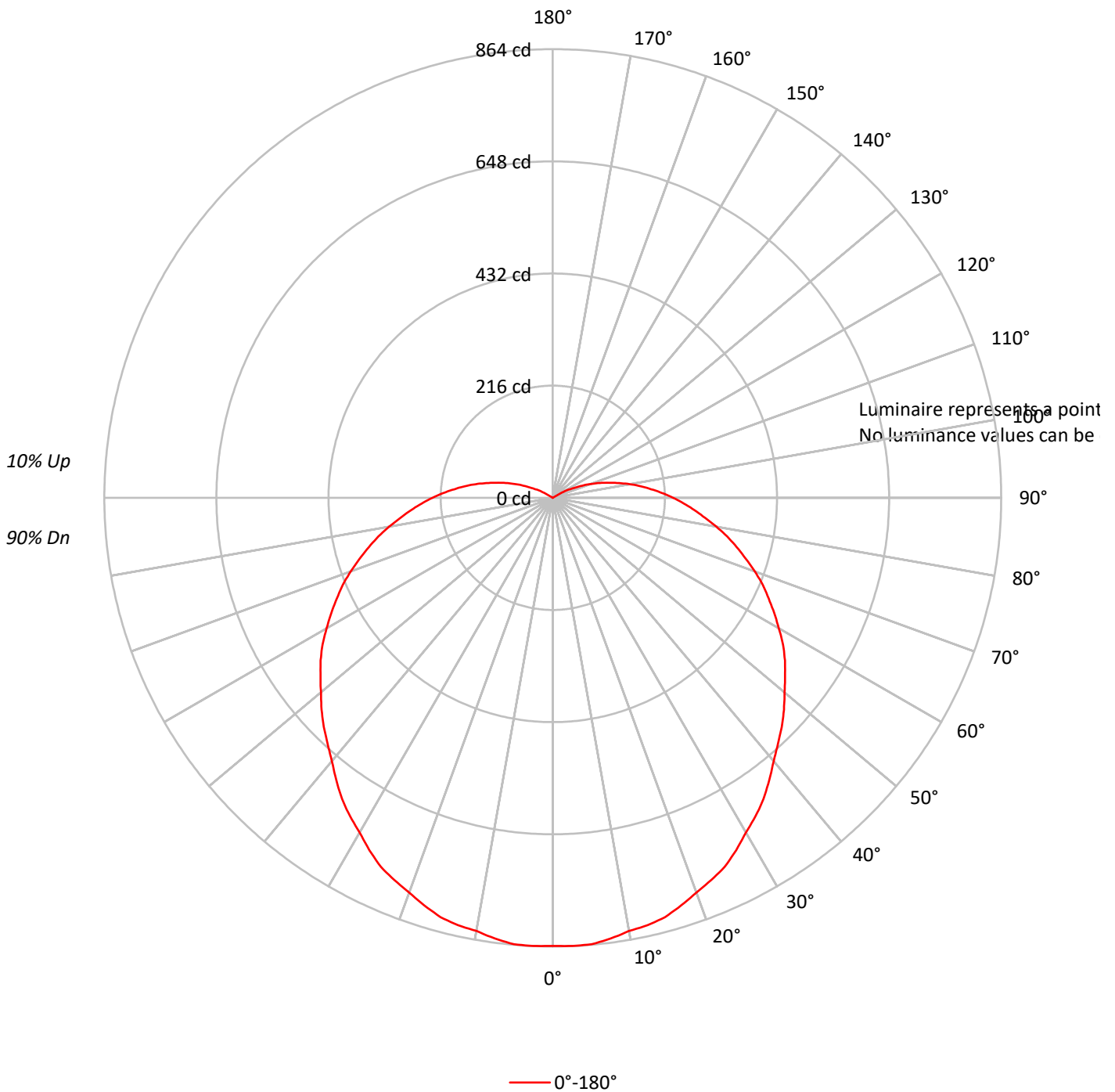
Summary

Lumens per Lamp: 8500 (1 lamp)
Luminaire Lumens: 3609.8 lumens
Efficiency: 42.5%
Efficacy: 36.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.43
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Semi-Direct

Input Watts (W): 100
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	50	50	50	50	48	48	48	48	45	45	45	42	42	42	39	39	39	38
1	44	41	39	37	42	40	37	36	37	35	34	34	33	32	32	31	30	29
2	39	35	32	29	38	34	31	28	31	29	27	29	27	25	27	26	24	23
3	35	30	26	23	34	29	26	23	27	24	22	26	23	21	24	22	20	19
4	32	27	22	19	31	26	22	19	24	21	18	22	20	17	21	19	17	16
5	30	24	19	16	28	23	19	16	21	18	15	20	17	15	19	16	14	13
6	27	21	17	14	26	20	17	14	19	16	13	18	15	13	17	14	12	11
7	25	19	15	12	24	19	15	12	17	14	12	16	14	11	15	13	11	10
8	23	17	14	11	22	17	13	11	16	13	10	15	12	10	14	12	10	9
9	22	16	12	10	21	15	12	10	15	12	9	14	11	9	13	11	9	8
10	20	15	11	9	20	14	11	9	14	11	8	13	10	8	12	10	8	7

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	81.8	2.3	1.0	0°	863	
10°-20°	235.4	6.5	2.8	5°	863	82
20°-30°	360.4	10.0	4.2	15°	836	235
30°-40°	442.3	12.3	5.2	25°	784	360
40°-50°	481.8	13.3	5.7	35°	708	442
50°-60°	488.1	13.5	5.7	45°	624	482
60°-70°	455.2	12.6	5.4	55°	546	488
70°-80°	387.9	10.7	4.6	65°	459	455
80°-90°	299.7	8.3	3.5	75°	367	388
90°-100°	208.4	5.8	2.5	85°	274	233
100°-110°	120.0	3.3	1.4	90°	232	127
110°-120°	46.6	1.3	0.5	95°	190	148
120°-130°	2.2	0.1	0.0	105°	112	120
130°-140°	0.0	0.0	0.0	115°	45	47
140°-150°	0.0	0.0	0.0	125°	0	2
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°	677.7	18.8	8.0	165°	0	0
0°-40°	1120.0	31.0	13.2	175°	0	0
0°-60°	2089.8	57.9	24.6	180°	0	0
0°-90°	3232.6	89.6	38.0			
90°-120°	375.0	10.4	4.4			
90°-150°	377.2	10.4	4.4			
90°-180°	377.0	10.4	4.4			
0°-180°	3609.8	100.0	42.5			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	863
2.5°	864
5°	863
7.5°	856
10°	847
12.5°	843
15°	836
17.5°	823
20°	809
22.5°	797
25°	784
27.5°	765
30°	744
32.5°	727
35°	708
37.5°	685
40°	662
42.5°	642
45°	624
47.5°	604
50°	583
52.5°	564
55°	546
57.5°	526
60°	503
62.5°	481
65°	459
67.5°	438
70°	414
72.5°	390
75°	367
77.5°	344
80°	320
82.5°	296
85°	274
87.5°	253
90°	232
92.5°	211
95°	190
97.5°	171
100°	151
102.5°	131
105°	112
107.5°	95
110°	78



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	61
115°	45
117.5°	32
120°	19
122.5°	0
125°	0
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)