

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or  
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: 19072

Luminaire Tested: **6000N-MH100-MFL4**

Issue Date: 3/3/2020

**Test Information**

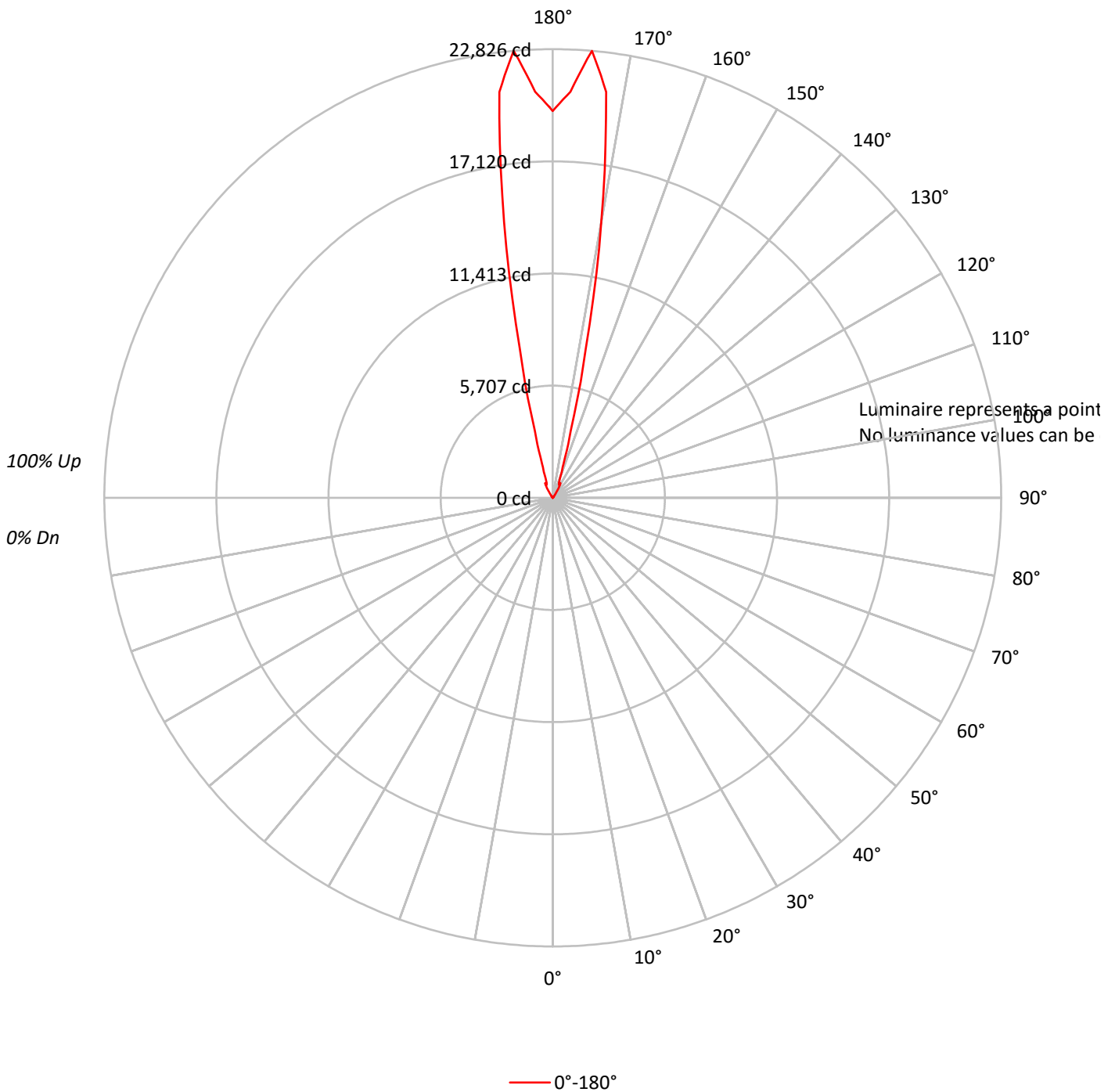
Test Method: LM-46-04  
Report Number: 19072  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 6000N-MH100-MFL4  
Description: WITH SEMI-SPECULAR SPUN REFLECTOR AND TWO CLEAR GLASS LENS  
  
Light Source: ONE PHILIPS 100 WATT CMH LAMP  
  
MHC100/U/M/4K. LUMEN RATING = 9000 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 9000 (1 lamp)  
Luminaire Lumens: 3773.7 lumens  
Efficiency: 41.9%  
Efficacy: -  
N/A  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Indirect  
  
Input Watts (W): 0  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





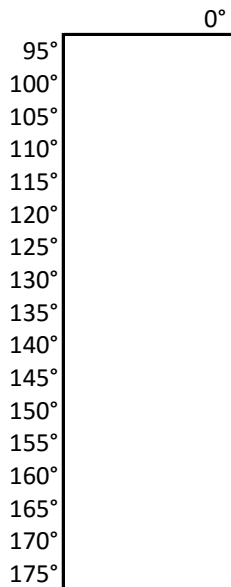
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	40	40	40	40	34	34	34	34	23	23	23	13	13	13	4	4	4	0
1	36	35	33	32	31	30	28	27	20	20	19	12	11	11	4	4	4	0
2	33	30	28	26	28	26	24	22	18	17	16	10	10	9	3	3	3	0
3	30	26	24	21	26	23	20	19	16	14	13	9	8	8	3	3	3	0
4	27	23	20	18	23	20	18	16	14	12	11	8	7	7	3	2	2	0
5	25	21	18	15	21	18	15	13	12	11	9	7	6	6	2	2	2	0
6	23	18	15	13	20	16	13	11	11	9	8	6	5	5	2	2	2	0
7	21	16	13	11	18	14	12	10	10	8	7	6	5	4	2	2	1	0
8	20	15	12	10	17	13	10	9	9	7	6	5	4	4	2	1	1	0
9	18	13	11	9	15	12	9	7	8	6	5	5	4	3	2	1	1	0
10	17	12	9	8	14	10	8	7	7	6	5	4	3	3	1	1	1	0

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	0.5	0.0	0.0
100°-110°	0.5	0.0	0.0
110°-120°	5.0	0.1	0.1
120°-130°	15.4	0.4	0.2
130°-140°	40.1	1.1	0.4
140°-150°	155.5	4.1	1.7
150°-160°	377.2	10.0	4.2
160°-170°	1286.4	34.1	14.3
170°-180°	1893.1	50.2	21.0
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	6.0	0.2	0.1
90°-150°	217.0	5.8	2.4
90°-180°	3774.0	100.0	41.9
0°-180°	3773.7	100.0	41.9

**CANDELA DISTRIBUTION:**

	0°	Flux
90°	0	
95°	0	1
105°	0	1
115°	4	5
125°	18	15
135°	51	40
145°	191	155
155°	726	377
165°	3525	1286
175°	22826	###
180°	19679	



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**CANDELA DISTRIBUTION (FULL):**

	0°
90°	0.5
92.5°	0.5
95°	0.5
97.5°	0.5
100°	0.5
102.5°	0.5
105°	0.5
107.5°	0.5
110°	0.5
112.5°	0.5
115°	4.4
117.5°	9.2
120°	12.1
122.5°	13.1
125°	17.5
127.5°	17.5
130°	30.1
132.5°	42.2
135°	50.9
137.5°	62.5
140°	77.6
142.5°	110.0
145°	191.0
147.5°	350.4
150°	686.8
152.5°	842.3
155°	726.0
157.5°	824.4
160°	1101.6
162.5°	1784.5
165°	3524.9
167.5°	7754.9
170°	14239.0
172.5°	20824.5
175°	22825.6
177.5°	20677.6
180°	19679.2

(END OF REPORT)