

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: 18996

Luminaire Tested: **6002N-MH100PAR38-WFL**

Issue Date: 3/3/2020

**Test Information**

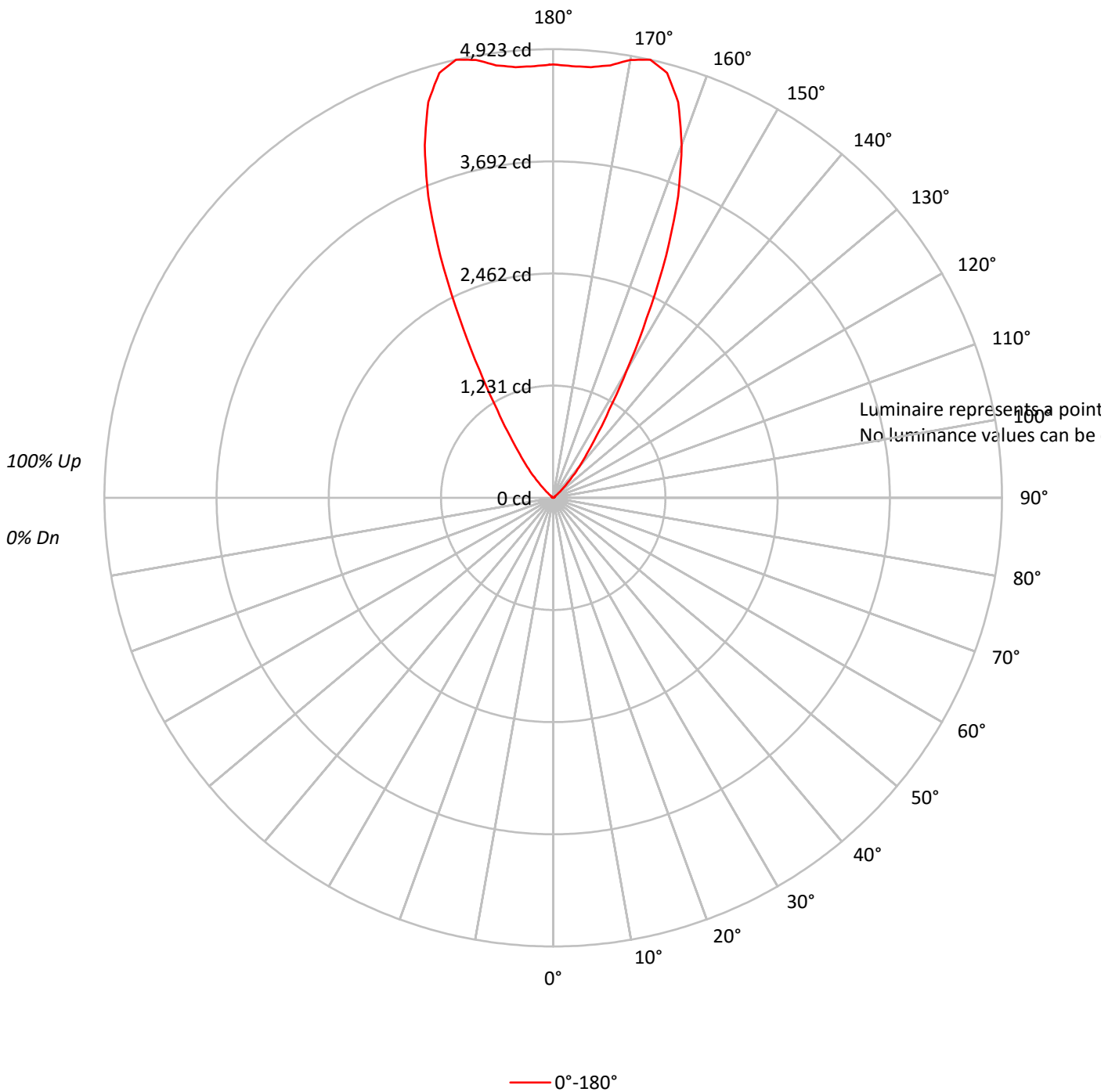
Test Method: LM-46-04  
Report Number: 18996  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 6002N-MH100PAR38-WFL  
Description: WITH PAR 38 WIDE FLOOD LAMP AND TWO CLEAR GLASS LENS  
  
Light Source: ONE SYLVANIA 100 W MH LAMP  
  
MP100PAR38/U/VWFL65. LUMEN RATING = 5800 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 5800 (1 lamp)  
Luminaire Lumens: 3831.3 lumens  
Efficiency: 66.1%  
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 (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

TEST NUMBER: 18996  
CATALOG NUMBER: 6002N-MH100PAR38-WFL

### Luminous Intensity Polar Plot





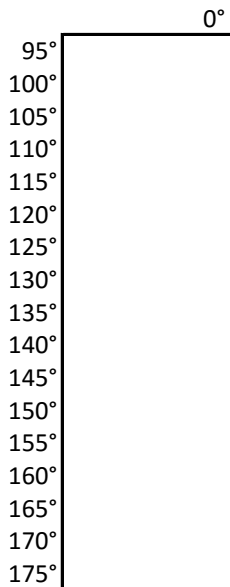
TEST NUMBER: 18996

CATALOG NUMBER: 6002N-MH100PAR38-WFL

**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	63	63	63	63	54	54	54	54	37	37	37	21	21	21	7	7	7	0
1	57	55	52	50	49	47	45	43	32	31	30	18	18	17	6	6	6	0
2	52	48	44	41	44	41	38	35	28	26	25	16	15	14	5	5	5	0
3	47	42	37	34	40	36	32	29	25	22	21	14	13	12	5	4	4	0
4	43	37	32	28	37	32	28	25	22	19	17	13	11	10	4	4	3	0
5	39	33	28	24	34	28	24	21	19	17	15	11	10	9	4	3	3	0
6	36	29	24	21	31	25	21	18	17	15	13	10	9	8	3	3	2	0
7	33	26	21	18	28	22	18	15	15	13	11	9	8	7	3	2	2	0
8	31	23	19	15	26	20	16	13	14	11	10	8	7	6	3	2	2	0
9	28	21	17	13	24	18	14	12	13	10	8	7	6	5	2	2	2	0
10	26	19	15	12	23	16	13	10	11	9	7	7	5	4	2	2	1	0

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





TEST NUMBER: 18996

CATALOG NUMBER: 6002N-MH100PAR38-WFL

**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°	1.8	0.0	0.0
100°-110°	6.5	0.2	0.1
110°-120°	12.1	0.3	0.2
120°-130°	22.0	0.6	0.4
130°-140°	153.8	4.0	2.7
140°-150°	549.8	14.3	9.5
150°-160°	1306.7	34.1	22.5
160°-170°	1321.6	34.5	22.8
170°-180°	457.1	11.9	7.9
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°	20.4	0.5	0.4
90°-150°	746.0	19.5	12.9
90°-180°	3831.0	100.0	66.1
0°-180°	3831.3	100.0	66.1

**CANDELA DISTRIBUTION:**

	0°	Flux
90°	0	
95°	1	2
105°	6	6
115°	12	12
125°	20	22
135°	175	154
145°	823	550
155°	2929	1307
165°	4826	1322
175°	4743	457
180°	4755	

TEST NUMBER: 18996  
CATALOG NUMBER: 6002N-MH100PAR38-WFL

**CANDELA DISTRIBUTION (FULL):**

	0°
90°	0.5
92.5°	0.6
95°	1.3
97.5°	2.4
100°	3.8
102.5°	5.1
105°	6.1
107.5°	7.2
110°	8.5
112.5°	10.3
115°	12.5
117.5°	14.4
120°	15.3
122.5°	16.5
125°	20.3
127.5°	29.9
130°	50.3
132.5°	94.2
135°	175.2
137.5°	300.3
140°	442.6
142.5°	598.4
145°	823.2
147.5°	1139.0
150°	1615.0
152.5°	2220.4
155°	2929.1
157.5°	3578.7
160°	4119.1
162.5°	4553.6
165°	4825.9
167.5°	4923.2
170°	4878.8
172.5°	4785.0
175°	4743.0
177.5°	4740.3
180°	4754.7

(END OF REPORT)