

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: 18998

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 18998
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 6002N-MH100PAR38-FL
Description: WITH PAR 38 FLOOD LAMP AND TWO CLEAR GLASS LENS

Light Source: ONE SYLVANIA 100 W MH LAMP

MP100PAR38/U/FL35. LUMEN RATING = 5800 LMS.

Ballast/Driver: -

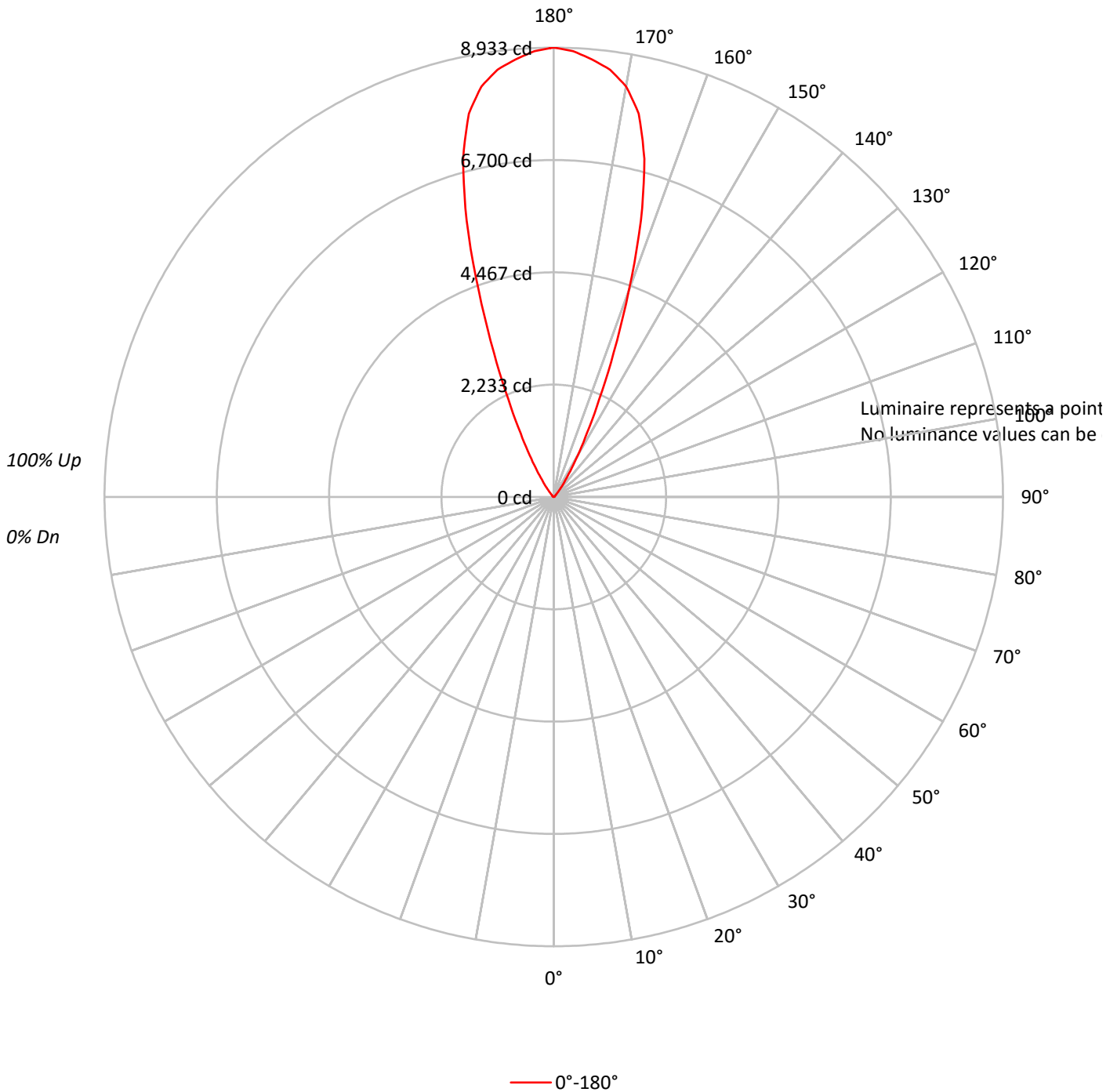
Summary

Lumens per Lamp: 5800 (1 lamp)
Luminaire Lumens: 4045.7 lumens
Efficiency: 69.8%
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_{in}): 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: 18998
CATALOG NUMBER: 6002N-MH100PAR38-FL

Luminous Intensity Polar Plot





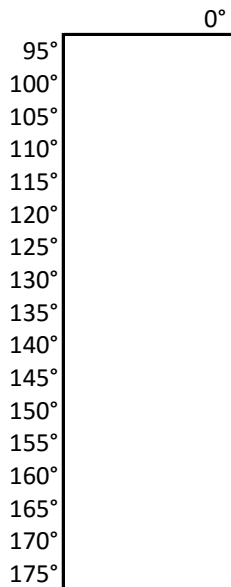
TEST NUMBER: 18998

CATALOG NUMBER: 6002N-MH100PAR38-FL

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	66	66	66	66	57	57	57	57	39	39	39	22	22	22	7	7	7	0
1	60	58	55	53	52	49	47	45	34	33	31	19	19	18	6	6	6	0
2	55	50	46	43	47	43	40	37	29	28	26	17	16	15	5	5	5	0
3	50	44	39	36	43	38	34	31	26	24	22	15	14	13	5	4	4	0
4	46	39	34	30	39	33	29	26	23	20	18	13	12	11	4	4	4	0
5	42	34	29	25	35	29	25	22	20	18	16	12	10	9	4	3	3	0
6	38	31	25	22	32	26	22	19	18	15	13	11	9	8	3	3	3	0
7	35	27	22	19	30	24	19	16	16	14	12	9	8	7	3	3	2	0
8	32	25	20	16	28	21	17	14	15	12	10	9	7	6	3	2	2	0
9	30	22	17	14	26	19	15	12	13	11	9	8	6	5	3	2	2	0
10	28	20	16	13	24	17	14	11	12	10	8	7	6	5	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: 18998

CATALOG NUMBER: 6002N-MH100PAR38-FL

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°	1.6	0.0	0.0
110°-120°	8.3	0.2	0.1
120°-130°	16.2	0.4	0.3
130°-140°	54.6	1.3	0.9
140°-150°	266.1	6.6	4.6
150°-160°	1031.9	25.5	17.8
160°-170°	1845.8	45.6	31.8
170°-180°	820.7	20.3	14.1
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°	10.4	0.3	0.2
90°-150°	347.4	8.6	6.0
90°-180°	4046.0	100.0	69.8
0°-180°	4045.7	100.0	69.8

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	0	1
105°	1	2
115°	9	8
125°	17	16
135°	62	55
145°	374	266
155°	2133	1032
165°	6963	1846
175°	8733	821
180°	8933	



TEST NUMBER: 18998

CATALOG NUMBER: 6002N-MH100PAR38-FL

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°	1.0
107.5°	1.9
110°	5.1
112.5°	7.1
115°	8.6
117.5°	9.7
120°	11.1
122.5°	12.4
125°	16.7
127.5°	22.2
130°	32.8
132.5°	45.8
135°	62.3
137.5°	91.2
140°	143.8
142.5°	228.7
145°	374.4
147.5°	605.1
150°	951.9
152.5°	1422.4
155°	2132.7
157.5°	3106.4
160°	4353.4
162.5°	5768.6
165°	6962.7
167.5°	7806.0
170°	8287.0
172.5°	8568.2
175°	8732.8
177.5°	8871.4
180°	8933.3

(END OF REPORT)