

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: 19050

Luminaire Tested: **6002N-MH39PAR20-SP**

Issue Date: 3/3/2020

**Test Information**

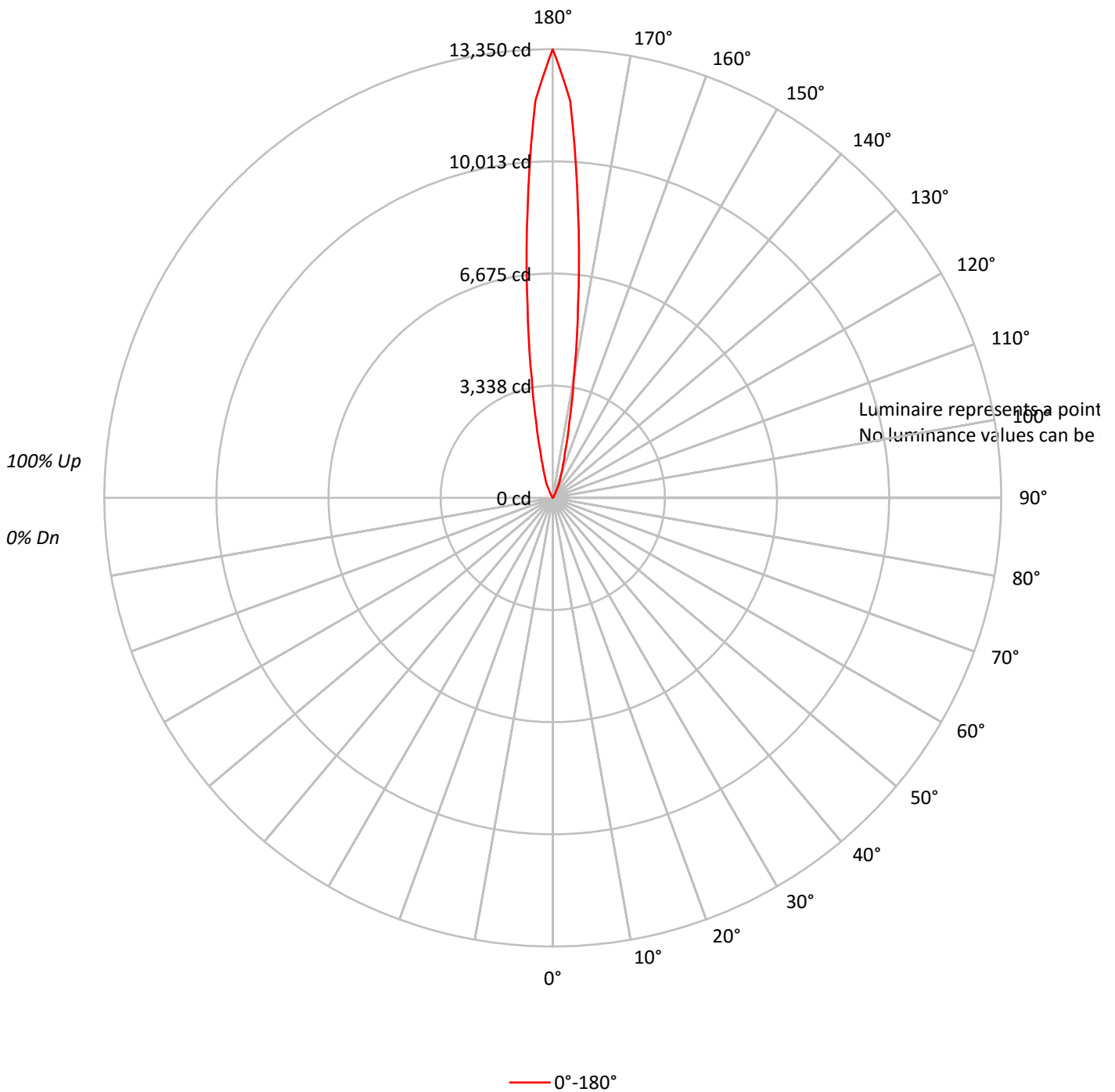
Test Method: LM-46-04  
Report Number: 19050  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 6002N-MH39PAR20-SP  
Description: WITH PAR LAMP AND TWO CLEAR GLASS LENS  
  
Light Source: ONE PHILIPS 39 WATT CMH LAMP  
  
CDM35/830/PAR20/SP. LUMEN RATING = 2000 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2000 (1 lamp)  
Luminaire Lumens: 1303.7 lumens  
Efficiency: 65.2%  
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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CATALOG NUMBER: 6002N-MH39PAR20-SP

### Luminous Intensity Polar Plot





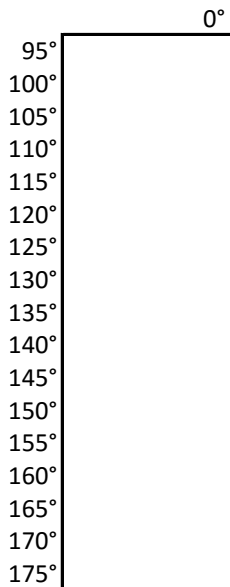
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CATALOG NUMBER: 6002N-MH39PAR20-SP

**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	62	62	62	62	53	53	53	53	36	36	36	21	21	21	7	7	7	0
1	56	54	52	49	48	46	44	43	32	30	29	18	18	17	6	6	6	0
2	51	47	43	40	44	40	37	35	28	26	24	16	15	14	5	5	5	0
3	47	41	37	33	40	35	32	29	24	22	20	14	13	12	4	4	4	0
4	43	36	32	28	36	31	27	24	21	19	17	12	11	10	4	4	3	0
5	39	32	27	24	33	28	24	21	19	16	15	11	10	9	4	3	3	0
6	36	29	24	20	30	25	21	18	17	14	12	10	8	7	3	3	2	0
7	33	26	21	18	28	22	18	15	15	13	11	9	7	6	3	2	2	0
8	30	23	18	15	26	20	16	13	14	11	9	8	7	6	3	2	2	0
9	28	21	16	13	24	18	14	12	12	10	8	7	6	5	2	2	2	0
10	26	19	15	12	22	16	13	10	11	9	7	7	5	4	2	2	1	0

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





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CATALOG NUMBER: 6002N-MH39PAR20-SP

**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°	0.5	0.0	0.0
120°-130°	0.6	0.0	0.0
130°-140°	4.0	0.3	0.2
140°-150°	22.4	1.7	1.1
150°-160°	164.3	12.6	8.2
160°-170°	443.9	34.0	22.2
170°-180°	666.9	51.2	33.3
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°	1.6	0.1	0.1
90°-150°	28.6	2.2	1.4
90°-180°	1304.0	100.0	65.2
0°-180°	1303.7	100.0	65.2

**CANDELA DISTRIBUTION:**

	0°	Flux
90°	0	
95°	0	1
105°	0	1
115°	0	0
125°	0	1
135°	4	4
145°	32	22
155°	384	164
165°	1427	444
175°	8605	667
180°	13350	

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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°	0.5
117.5°	0.5
120°	0.5
122.5°	0.5
125°	0.5
127.5°	0.5
130°	1.8
132.5°	2.6
135°	4.3
137.5°	7.7
140°	11.5
142.5°	20.0
145°	32.2
147.5°	46.4
150°	87.1
152.5°	181.1
155°	384.5
157.5°	532.2
160°	710.1
162.5°	978.5
165°	1427.4
167.5°	2270.7
170°	3590.3
172.5°	5736.4
175°	8604.8
177.5°	11826.7
180°	13350.3

(END OF REPORT)