

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: 19075

Luminaire Tested: **6000A-MH100-WFL7-15DEGREETILT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 19075
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 6000A-MH100-WFL7-15DEGREETILT
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: -

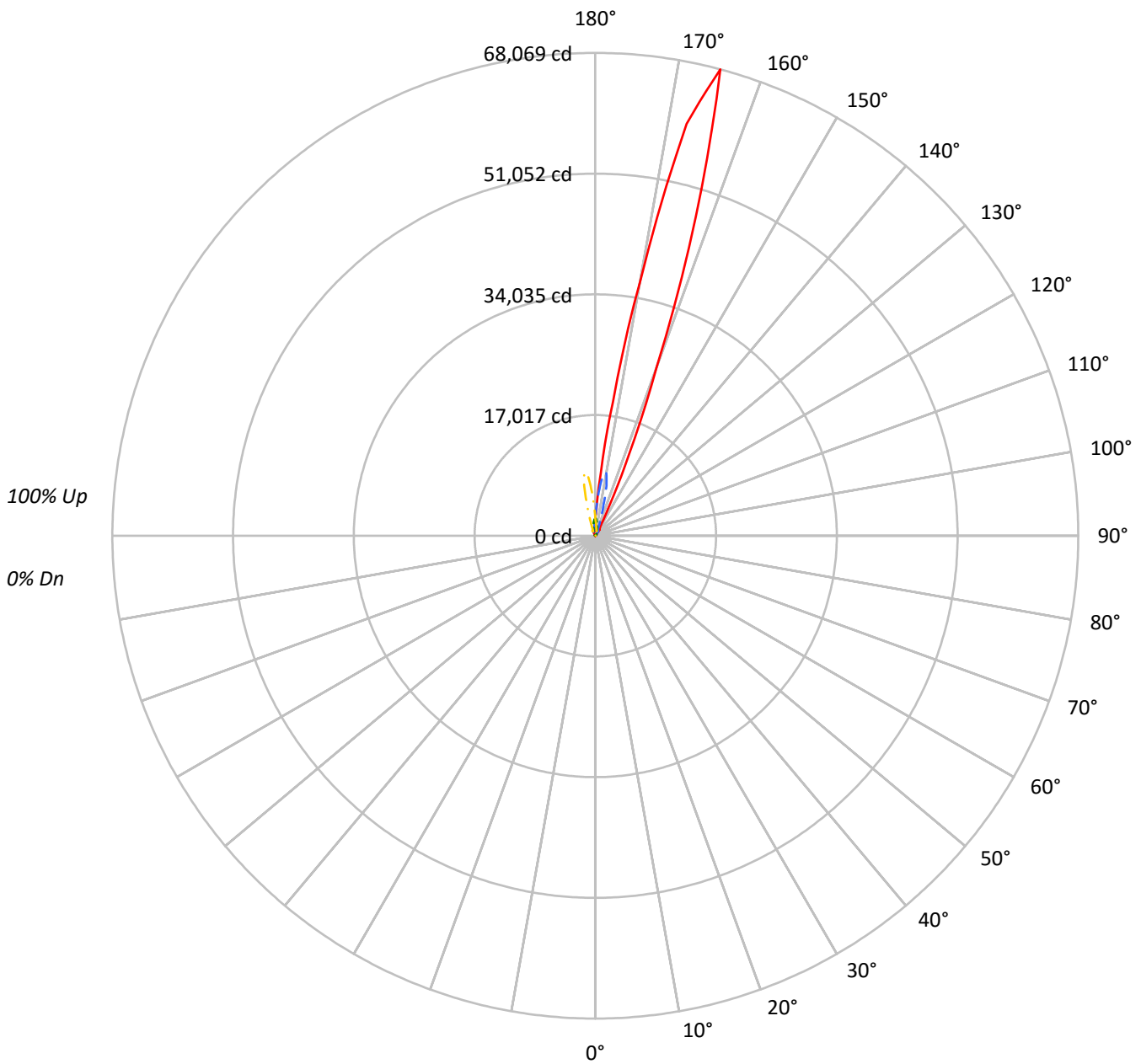
Summary

Lumens per Lamp: 9000 (1 lamp)
Luminaire Lumens: 3307.7 lumens
Efficiency: 36.8%
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 (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



— 0°-180° - - 45°-225° ···· 90°-270° - · - · 135°-315°



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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	35	35	35	35	30	30	30	30	20	20	20	12	12	12	4	4	4	0
1	32	30	29	28	27	26	25	24	18	17	17	10	10	10	3	3	3	0
2	29	26	24	23	25	23	21	20	16	15	14	9	8	8	3	3	3	0
3	26	23	21	19	22	20	18	16	14	12	11	8	7	7	3	2	2	0
4	24	20	18	16	20	18	15	14	12	11	10	7	6	6	2	2	2	0
5	22	18	15	13	19	16	13	12	11	9	8	6	5	5	2	2	2	0
6	20	16	13	11	17	14	12	10	10	8	7	6	5	4	2	2	1	0
7	19	14	12	10	16	12	10	9	9	7	6	5	4	4	2	1	1	0
8	17	13	10	9	15	11	9	7	8	6	5	4	4	3	1	1	1	0
9	16	12	9	8	13	10	8	7	7	6	5	4	3	3	1	1	1	0
10	15	11	8	7	13	9	7	6	6	5	4	4	3	2	1	1	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
95°	Luminaire represents a point source (luminous area is zero).			
100°	No luminance values can be calculated.			
105°				
110°				
115°				
120°				
125°				
130°				
135°				
140°				
145°				
150°				
155°				
160°				
165°				
170°				
175°				



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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°	8.5	0.3	0.1
110°-120°	33.9	1.0	0.4
120°-130°	43.2	1.3	0.5
130°-140°	55.6	1.7	0.6
140°-150°	207.1	6.3	2.3
150°-160°	628.6	19.0	7.0
160°-170°	1856.6	56.1	20.6
170°-180°	473.5	14.3	5.3
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°	43.0	1.3	0.5
90°-150°	348.9	10.5	3.9
90°-180°	3308.0	100.0	36.8
0°-180°	3307.7	100.0	36.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	0	0	0	0	0	1
105°	0	0	0	0	0	13
115°	47	24	47	24	47	41
125°	47	47	47	47	47	57
135°	210	47	47	47	210	165
145°	1120	304	94	304	1120	530
155°	4828	735	607	735	4828	3404
165°	68069	957	607	957	68069	14335
175°	8932	2099	1003	2099	8932	1711
180°	2426	2426	2426	2426	2426	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
105°	0.5	0.5	0.5	0.5	0.5	47.1	0.5	0.5	0.5	0.5	0.5
107.5°	47.1	0.5	0.5	0.5	0.5	47.1	47.1	0.5	47.1	0.5	47.1
110°	0.5	0.5	0.5	0.5	0.5	0.5	47.1	47.1	47.1	47.1	47.1
112.5°	47.1	47.1	47.1	0.5	0.5	47.1	47.1	47.1	0.5	47.1	47.1
115°	47.1	47.1	47.1	47.1	23.8	0.5	0.5	47.1	47.1	47.1	0.5
117.5°	47.1	47.1	47.1	47.1	47.1	47.1	0.5	47.1	47.1	47.1	0.5
120°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
122.5°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
125°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
127.5°	93.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
130°	93.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
132.5°	163.7	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
135°	210.4	93.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
137.5°	280.3	163.7	93.8	47.1	70.5	47.1	47.1	47.1	47.1	47.1	47.1
140°	327.0	280.3	163.7	93.8	105.4	93.8	47.1	47.1	47.1	47.1	47.1
142.5°	560.2	396.9	210.4	163.7	152.1	93.8	47.1	93.8	47.1	93.8	47.1
145°	1119.8	793.3	327.0	210.4	303.6	210.4	93.8	93.8	93.8	93.8	93.8
147.5°	1003.2	909.9	793.3	280.3	560.2	513.5	93.8	163.7	93.8	163.7	93.8
150°	1189.8	840.0	840.0	560.2	560.2	840.0	280.3	210.4	163.7	210.4	280.3
152.5°	1866.0	1003.2	676.8	793.3	595.1	909.9	676.8	443.6	396.9	443.6	676.8
155°	4827.5	1702.8	723.4	606.8	735.0	676.8	909.9	793.3	606.8	793.3	909.9
157.5°	12126.4	3918.1	1003.2	606.8	700.1	676.8	723.4	909.9	840.0	909.9	723.4
160°	25324.9	8581.9	1516.2	723.4	676.8	676.8	676.8	676.8	793.3	676.8	676.8
162.5°	47128.2	15017.9	2542.3	909.9	805.0	723.4	676.8	676.8	676.8	676.8	676.8
165°	68068.7	20544.5	4384.5	1189.8	956.6	840.0	676.8	676.8	606.8	676.8	676.8
167.5°	59487.3	23669.3	7229.4	1516.2	1213.1	1003.2	793.3	723.4	676.8	723.4	793.3
170°	36588.0	22480.0	8978.3	1982.6	1469.6	1119.8	956.6	840.0	793.3	840.0	956.6
172.5°	19052.1	16720.2	8815.1	2612.2	1784.4	1423.0	1073.2	956.6	909.9	956.6	1073.2
175°	8931.7	9724.5	6646.4	3055.3	2099.2	1749.4	1353.0	1119.8	1003.2	1119.8	1353.0
177.5°	3801.5	4547.7	4197.9	3055.3	2320.7	2215.8	1819.4	1586.2	1353.0	1586.2	1819.4
180°	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	0.5	0.5	0.5	0.5	0.5	0.5
95°	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	0.5	0.5	0.5	0.5	0.5	0.5
100°	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	0.5	0.5	0.5	0.5	0.5	0.5
105°	47.1	0.5	0.5	0.5	0.5	0.5
107.5°	47.1	0.5	0.5	0.5	0.5	47.1
110°	0.5	0.5	0.5	0.5	0.5	0.5
112.5°	47.1	0.5	0.5	47.1	47.1	47.1
115°	0.5	23.8	47.1	47.1	47.1	47.1
117.5°	47.1	47.1	47.1	47.1	47.1	47.1
120°	47.1	47.1	47.1	47.1	47.1	47.1
122.5°	47.1	47.1	47.1	47.1	47.1	47.1
125°	47.1	47.1	47.1	47.1	47.1	47.1
127.5°	47.1	47.1	47.1	47.1	47.1	93.8
130°	47.1	47.1	47.1	47.1	47.1	93.8
132.5°	47.1	47.1	47.1	47.1	47.1	163.7
135°	47.1	47.1	47.1	47.1	93.8	210.4
137.5°	47.1	70.5	47.1	93.8	163.7	280.3
140°	93.8	105.4	93.8	163.7	280.3	327.0
142.5°	93.8	152.1	163.7	210.4	396.9	560.2
145°	210.4	303.6	210.4	327.0	793.3	1119.8
147.5°	513.5	560.2	280.3	793.3	909.9	1003.2
150°	840.0	560.2	560.2	840.0	840.0	1189.8
152.5°	909.9	595.1	793.3	676.8	1003.2	1866.0
155°	676.8	735.0	606.8	723.4	1702.8	4827.5
157.5°	676.8	700.1	606.8	1003.2	3918.1	12126.4
160°	676.8	676.8	723.4	1516.2	8581.9	25324.9
162.5°	723.4	805.0	909.9	2542.3	15017.9	47128.2
165°	840.0	956.6	1189.8	4384.5	20544.5	68068.7
167.5°	1003.2	1213.1	1516.2	7229.4	23669.3	59487.3
170°	1119.8	1469.6	1982.6	8978.3	22480.0	36588.0
172.5°	1423.0	1784.4	2612.2	8815.1	16720.2	19052.1
175°	1749.4	2099.2	3055.3	6646.4	9724.5	8931.7
177.5°	2215.8	2320.7	3055.3	4197.9	4547.7	3801.5
180°	2425.7	2425.7	2425.7	2425.7	2425.7	2425.7

(END OF REPORT)