

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: 19071

Luminaire Tested: **6000A-MH100-SP1-15DEGREETILT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 19071
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 6000A-MH100-SP1-15DEGREETILT
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: -

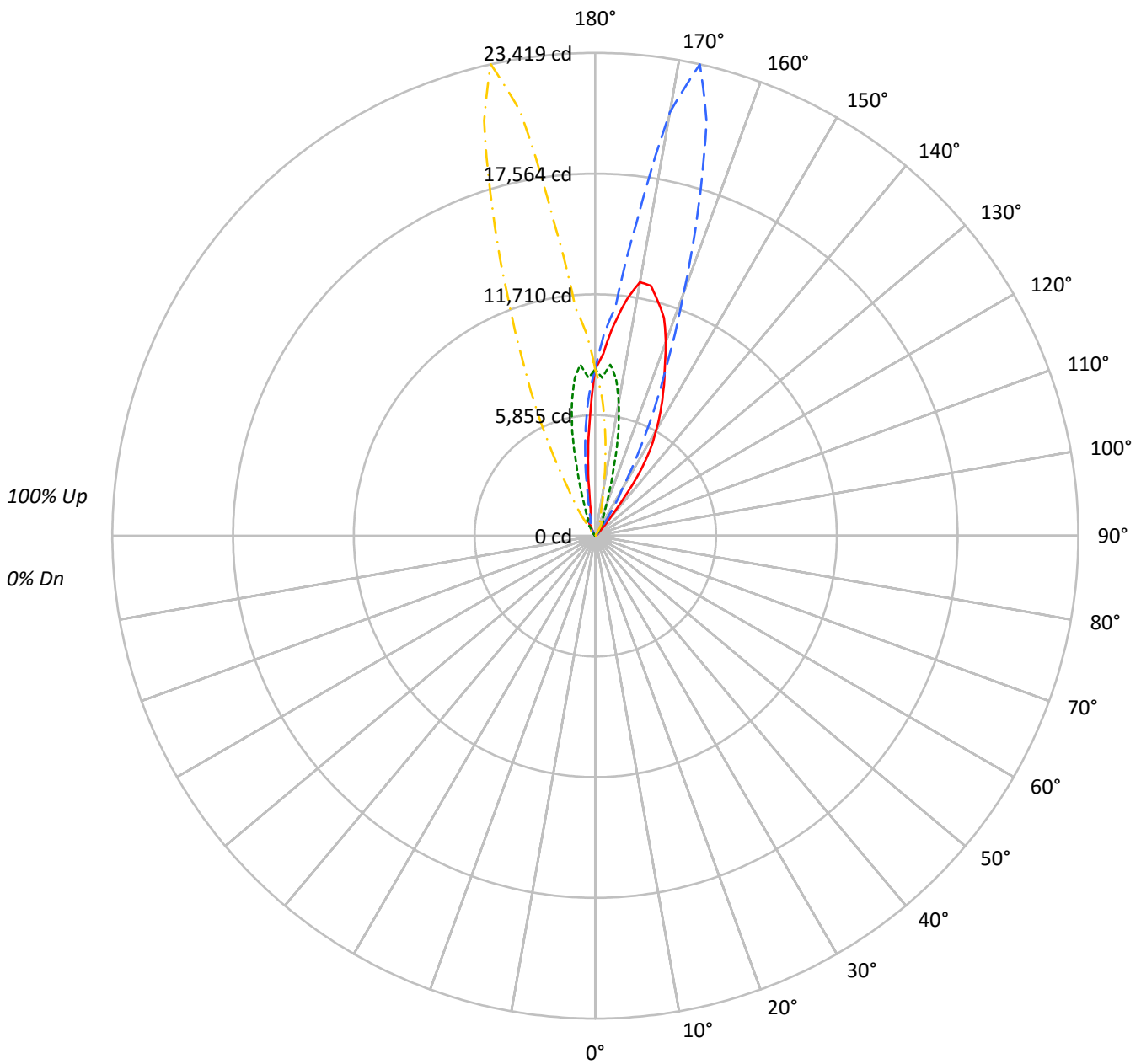
Summary

Lumens per Lamp: 9000 (1 lamp)
Luminaire Lumens: 5163.1 lumens
Efficiency: 57.4%
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

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CATALOG NUMBER: 6000A-MH100-SP1-15DEGREETILT

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	50	30	10	0	
RCR																						
0	55	55	55	55	47	47	47	47	32	32	32	18	18	18	6	6	6	6	6	6	0	
1	50	47	45	43	42	41	39	37	28	27	26	16	15	15	5	5	5	5	5	5	0	
2	45	41	38	35	38	35	33	31	24	23	21	14	13	13	4	4	4	4	4	4	0	
3	41	36	32	29	35	31	28	25	21	19	18	12	11	11	4	4	3	4	4	3	0	
4	38	32	28	25	32	27	24	21	19	17	15	11	10	9	4	3	3	4	3	3	0	
5	34	28	24	21	29	24	21	18	17	15	13	10	9	8	3	3	3	3	3	3	0	
6	31	25	21	18	27	22	18	16	15	13	11	9	7	7	3	2	2	3	2	2	0	
7	29	22	18	15	25	19	16	13	13	11	10	8	7	6	3	2	2	3	2	2	0	
8	27	20	16	13	23	17	14	12	12	10	8	7	6	5	2	2	2	2	2	2	0	
9	25	18	14	12	21	16	12	10	11	9	7	6	5	4	2	2	1	2	2	1	0	
10	23	17	13	10	20	14	11	9	10	8	6	6	5	4	2	2	1	2	2	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°	0.5	0.0	0.0
110°-120°	3.0	0.1	0.0
120°-130°	27.2	0.5	0.3
130°-140°	91.1	1.8	1.0
140°-150°	548.3	10.6	6.1
150°-160°	1487.9	28.8	16.5
160°-170°	2184.3	42.3	24.3
170°-180°	820.2	15.9	9.1
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°	4.1	0.1	0.0
90°-150°	670.7	13.0	7.5
90°-180°	5163.0	100.0	57.4
0°-180°	5163.1	100.0	57.4

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	1
115°	16	0	0	0	16	13
125°	94	28	0	28	94	87
135°	342	47	39	47	342	323
145°	3730	237	94	237	3730	2167
155°	7817	842	722	842	7817	3581
165°	11756	3529	760	3529	11756	3258
175°	10260	8329	4033	8329	10260	1048
180°	8064	8064	8064	8064	8064	



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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	0.5	0.5	0.5	0.5	0.5	0.5
107.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
110°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
112.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
115°	16.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
117.5°	16.0	16.0	16.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
120°	39.3	16.0	16.0	16.0	8.3	0.5	0.5	0.5	0.5	0.5	0.5
122.5°	54.8	39.3	16.0	16.0	8.3	16.0	0.5	0.5	0.5	0.5	0.5
125°	93.6	78.0	16.0	39.3	27.6	16.0	16.0	16.0	0.5	16.0	16.0
127.5°	132.3	116.8	39.3	39.3	27.6	16.0	16.0	16.0	0.5	16.0	16.0
130°	186.6	155.6	54.8	39.3	39.3	39.3	16.0	16.0	16.0	16.0	16.0
132.5°	248.6	209.9	93.6	39.3	39.3	39.3	16.0	16.0	16.0	16.0	16.0
135°	341.7	302.9	155.6	54.8	47.0	39.3	39.3	39.3	39.3	39.3	39.3
137.5°	512.3	419.2	209.9	93.6	66.4	54.8	39.3	39.3	39.3	39.3	39.3
140°	1024.1	682.9	302.9	132.3	85.8	54.8	54.8	54.8	54.8	54.8	54.8
142.5°	2047.7	1287.7	489.0	209.9	136.2	93.6	78.0	78.0	78.0	78.0	78.0
145°	3730.4	2877.4	892.3	318.4	237.0	155.6	93.6	93.6	93.6	93.6	93.6
147.5°	4963.3	4622.1	1760.7	682.9	427.0	287.4	171.1	132.3	132.3	132.3	171.1
150°	5909.4	6134.2	2575.0	1155.9	748.8	589.8	302.9	209.9	186.6	209.9	302.9
152.5°	6855.4	7855.7	4428.3	1062.9	853.5	853.5	605.3	396.0	318.4	396.0	605.3
155°	7816.9	10050.2	6684.8	1458.3	841.9	721.7	869.0	775.9	721.7	775.9	869.0
157.5°	8786.2	12477.3	9197.2	2559.5	993.1	698.4	721.7	814.7	907.8	814.7	721.7
160°	9995.9	15866.0	12531.6	4544.6	1466.1	799.2	659.6	682.9	721.7	682.9	659.6
162.5°	11073.8	19402.0	16548.4	7026.0	2284.2	1062.9	737.2	682.9	682.9	682.9	737.2
165°	11756.2	22829.5	20828.8	9786.6	3528.8	1590.2	931.0	814.7	760.4	814.7	931.0
167.5°	12423.0	23038.8	23418.8	12593.6	5141.7	2536.2	1365.3	1024.1	931.0	1024.1	1365.3
170°	12492.8	18649.8	20859.8	13935.2	6541.3	3730.4	2233.8	1574.6	1326.5	1574.6	2233.8
172.5°	11531.3	14958.7	15299.9	13345.8	7692.9	5056.4	3707.1	2823.1	2350.1	2823.1	3707.1
175°	10259.6	11849.2	11112.6	10771.4	8328.7	6266.1	5320.0	4583.4	4032.8	4583.4	5320.0
177.5°	8840.5	9747.8	9809.8	8049.6	7665.7	7553.3	6870.9	6320.3	5831.8	6320.3	6870.9
180°	8063.5	8063.5	8063.5	8063.5	8063.5	8063.5	8063.5	8063.5	8063.5	8063.5	8063.5



TEST NUMBER: 19071

CATALOG NUMBER: 6000A-MH100-SP1-15DEGREETILT

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°	0.5	0.5	0.5	0.5	0.5	0.5
107.5°	0.5	0.5	0.5	0.5	0.5	0.5
110°	0.5	0.5	0.5	0.5	0.5	0.5
112.5°	0.5	0.5	0.5	0.5	0.5	0.5
115°	0.5	0.5	0.5	0.5	0.5	16.0
117.5°	0.5	0.5	0.5	16.0	16.0	16.0
120°	0.5	8.3	16.0	16.0	16.0	39.3
122.5°	16.0	8.3	16.0	16.0	39.3	54.8
125°	16.0	27.6	39.3	16.0	78.0	93.6
127.5°	16.0	27.6	39.3	39.3	116.8	132.3
130°	39.3	39.3	39.3	54.8	155.6	186.6
132.5°	39.3	39.3	39.3	93.6	209.9	248.6
135°	39.3	47.0	54.8	155.6	302.9	341.7
137.5°	54.8	66.4	93.6	209.9	419.2	512.3
140°	54.8	85.8	132.3	302.9	682.9	1024.1
142.5°	93.6	136.2	209.9	489.0	1287.7	2047.7
145°	155.6	237.0	318.4	892.3	2877.4	3730.4
147.5°	287.4	427.0	682.9	1760.7	4622.1	4963.3
150°	589.8	748.8	1155.9	2575.0	6134.2	5909.4
152.5°	853.5	853.5	1062.9	4428.3	7855.7	6855.4
155°	721.7	841.9	1458.3	6684.8	10050.2	7816.9
157.5°	698.4	993.1	2559.5	9197.2	12477.3	8786.2
160°	799.2	1466.1	4544.6	12531.6	15866.0	9995.9
162.5°	1062.9	2284.2	7026.0	16548.4	19402.0	11073.8
165°	1590.2	3528.8	9786.6	20828.8	22829.5	11756.2
167.5°	2536.2	5141.7	12593.6	23418.8	23038.8	12423.0
170°	3730.4	6541.3	13935.2	20859.8	18649.8	12492.8
172.5°	5056.4	7692.9	13345.8	15299.9	14958.7	11531.3
175°	6266.1	8328.7	10771.4	11112.6	11849.2	10259.6
177.5°	7553.3	7665.7	8049.6	9809.8	9747.8	8840.5
180°	8063.5	8063.5	8063.5	8063.5	8063.5	8063.5

(END OF REPORT)