

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: 19065

Luminaire Tested: **6000A-MH70T6-SP1-15DEGREETILT**

Issue Date: 3/3/2020

**Test Information**

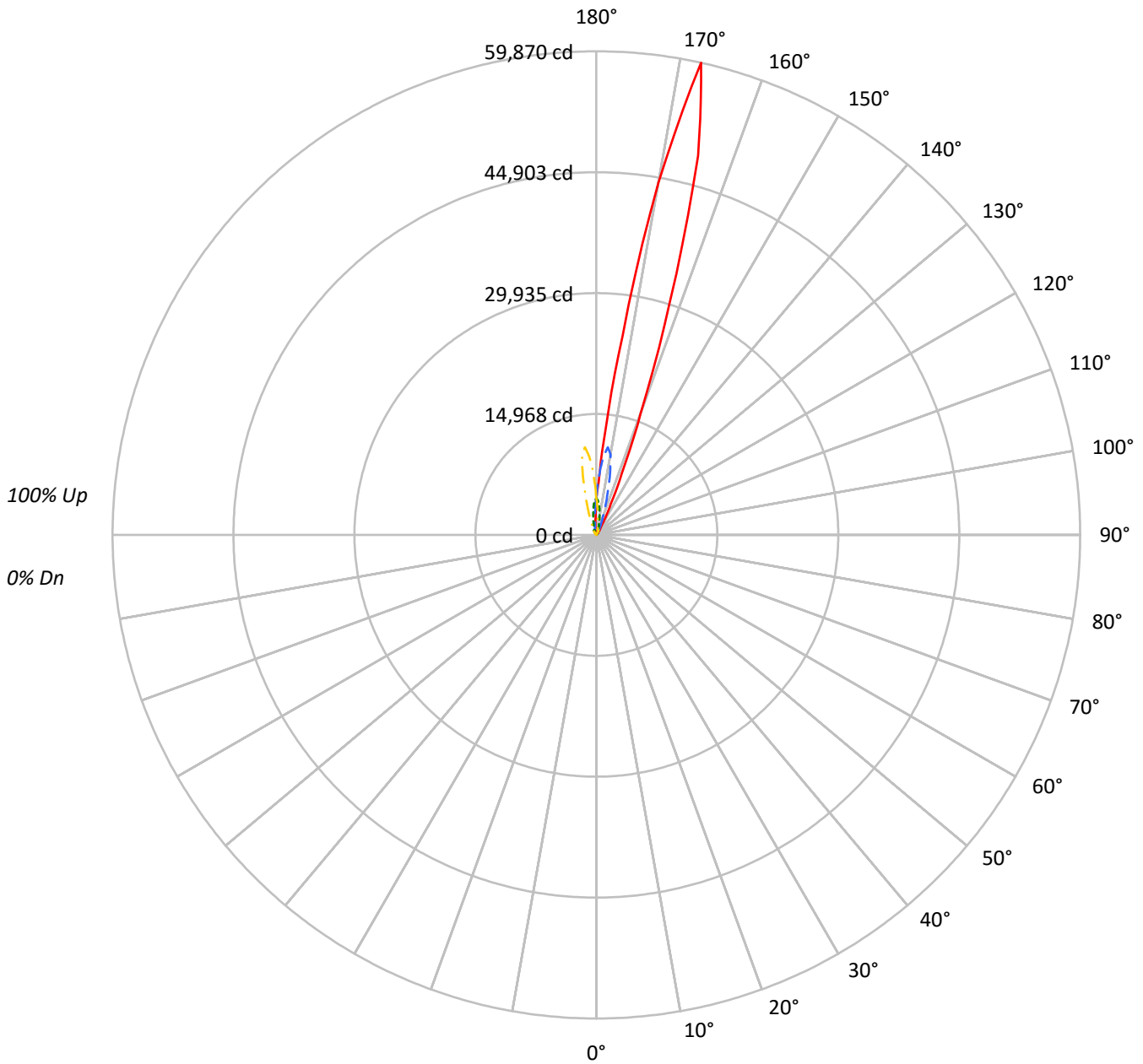
Test Method: LM-46-04  
Report Number: 19065  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 6000A-MH70T6-SP1-15DEGREETILT  
Description: WITH DIFFUSE SPUN REFLECTOR AND TWO CLEAR GLASS LENS  
  
Light Source: ONE PHILIPS 70 WATT CMH LAMP  
  
CDM70/T6/830. LUMEN RATING = 6600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 6600 (1 lamp)  
Luminaire Lumens: 3246.1 lumens  
Efficiency: 49.2%  
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

TEST NUMBER: 19065  
CATALOG NUMBER: 6000A-MH70T6-SP1-15DEGREETILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: 19065

CATALOG NUMBER: 6000A-MH70T6-SP1-15DEGREETILT

**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	47	47	47	47	40	40	40	40	27	27	27	16	16	16	5	5	5	0
1	43	41	39	37	36	35	33	32	24	23	22	14	13	13	4	4	4	0
2	39	35	33	30	33	30	28	26	21	19	18	12	11	11	4	4	3	0
3	35	31	28	25	30	27	24	22	18	17	15	11	10	9	3	3	3	0
4	32	27	24	21	27	23	21	18	16	14	13	9	8	8	3	3	3	0
5	29	24	21	18	25	21	18	16	14	12	11	8	7	7	3	2	2	0
6	27	22	18	15	23	19	16	13	13	11	9	7	6	6	2	2	2	0
7	25	19	16	13	21	17	14	12	11	10	8	7	6	5	2	2	2	0
8	23	17	14	11	19	15	12	10	10	8	7	6	5	4	2	2	1	0
9	21	16	12	10	18	14	11	9	9	8	6	5	4	4	2	1	1	0
10	20	14	11	9	17	12	10	8	9	7	5	5	4	3	2	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°				



TEST NUMBER: 19065  
 CATALOG NUMBER: 6000A-MH70T6-SP1-15DEGREETILT

**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°	1.0	0.0	0.0
130°-140°	25.4	0.8	0.4
140°-150°	148.4	4.6	2.2
150°-160°	576.4	17.8	8.7
160°-170°	1833.7	56.5	27.8
170°-180°	659.6	20.3	10.0
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	0.0	0.0
90°-150°	176.5	5.4	2.7
90°-180°	3246.0	100.0	49.2
0°-180°	3246.1	100.0	49.2

**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°	0	0	0	0	0	0
125°	0	0	0	0	0	10
135°	170	16	0	16	170	131
145°	655	151	39	151	655	406
155°	4175	544	432	544	4175	2521
165°	48594	1194	509	1194	48594	11372
175°	12979	3705	1318	3705	12979	2216
180°	4514	4514	4514	4514	4514	



TEST NUMBER: 19065

CATALOG NUMBER: 6000A-MH70T6-SP1-15DEGREETILT

**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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
117.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
120°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
122.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
125°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
127.5°	15.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
130°	54.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
132.5°	116.0	39.0	15.9	0.5	8.2	0.5	0.5	0.5	0.5	0.5	0.5
135°	169.9	54.4	39.0	15.9	15.9	15.9	15.9	0.5	0.5	0.5	15.9
137.5°	223.9	116.0	54.4	39.0	15.9	15.9	15.9	0.5	15.9	0.5	15.9
140°	300.9	208.5	131.4	54.4	46.7	15.9	15.9	15.9	15.9	15.9	15.9
142.5°	393.3	300.9	223.9	131.4	73.7	39.0	15.9	15.9	15.9	15.9	15.9
145°	655.2	524.2	377.9	208.5	150.7	92.9	54.4	39.0	39.0	39.0	54.4
147.5°	824.6	655.2	624.4	416.4	281.6	169.9	92.9	77.5	54.4	77.5	92.9
150°	1263.7	824.6	508.8	655.2	562.8	339.4	185.4	116.0	116.0	116.0	185.4
152.5°	2403.6	1633.4	624.4	508.8	639.8	639.8	393.3	247.0	208.5	247.0	393.3
155°	4175.1	2804.1	1071.1	508.8	543.5	601.3	639.8	508.8	431.8	508.8	639.8
157.5°	8164.8	4683.4	1618.0	693.7	601.3	524.2	547.4	624.4	585.9	624.4	547.4
160°	15982.6	8742.5	2442.1	886.3	732.2	585.9	508.8	470.3	485.7	470.3	508.8
162.5°	30162.3	15589.8	3589.7	1263.7	920.9	716.8	562.8	485.7	470.3	485.7	562.8
165°	48593.7	23576.9	5338.1	1787.4	1194.3	824.6	655.2	547.4	508.8	547.4	655.2
167.5°	59869.7	30239.3	7787.4	2465.2	1652.6	1125.0	755.3	639.8	585.9	639.8	755.3
170°	44249.6	30146.9	10113.5	3312.4	2257.2	1540.9	994.1	770.7	693.7	770.7	994.1
172.5°	24917.1	22698.9	10945.3	4306.0	2992.8	2203.3	1448.5	1071.1	886.3	1071.1	1448.5
175°	12978.7	14118.6	9643.7	5191.8	3705.3	3027.5	2141.7	1618.0	1317.6	1618.0	2141.7
177.5°	6562.8	7764.3	7217.5	5469.1	4294.5	4059.6	3289.3	2634.7	2141.7	2634.7	3289.3
180°	4514.0	4514.0	4514.0	4514.0	4514.0	4514.0	4514.0	4514.0	4514.0	4514.0	4514.0



TEST NUMBER: 19065

CATALOG NUMBER: 6000A-MH70T6-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	0.5
117.5°	0.5	0.5	0.5	0.5	0.5	0.5
120°	0.5	0.5	0.5	0.5	0.5	0.5
122.5°	0.5	0.5	0.5	0.5	0.5	0.5
125°	0.5	0.5	0.5	0.5	0.5	0.5
127.5°	0.5	0.5	0.5	0.5	0.5	15.9
130°	0.5	0.5	0.5	0.5	0.5	54.4
132.5°	0.5	8.2	0.5	15.9	39.0	116.0
135°	15.9	15.9	15.9	39.0	54.4	169.9
137.5°	15.9	15.9	39.0	54.4	116.0	223.9
140°	15.9	46.7	54.4	131.4	208.5	300.9
142.5°	39.0	73.7	131.4	223.9	300.9	393.3
145°	92.9	150.7	208.5	377.9	524.2	655.2
147.5°	169.9	281.6	416.4	624.4	655.2	824.6
150°	339.4	562.8	655.2	508.8	824.6	1263.7
152.5°	639.8	639.8	508.8	624.4	1633.4	2403.6
155°	601.3	543.5	508.8	1071.1	2804.1	4175.1
157.5°	524.2	601.3	693.7	1618.0	4683.4	8164.8
160°	585.9	732.2	886.3	2442.1	8742.5	15982.6
162.5°	716.8	920.9	1263.7	3589.7	15589.8	30162.3
165°	824.6	1194.3	1787.4	5338.1	23576.9	48593.7
167.5°	1125.0	1652.6	2465.2	7787.4	30239.3	59869.7
170°	1540.9	2257.2	3312.4	10113.5	30146.9	44249.6
172.5°	2203.3	2992.8	4306.0	10945.3	22698.9	24917.1
175°	3027.5	3705.3	5191.8	9643.7	14118.6	12978.7
177.5°	4059.6	4294.5	5469.1	7217.5	7764.3	6562.8
180°	4514.0	4514.0	4514.0	4514.0	4514.0	4514.0

(END OF REPORT)