

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: 19069

Luminaire Tested: **6000A-MH70T6-WFL7-15DEGREETILT**

Issue Date: 3/3/2020

**Test Information**

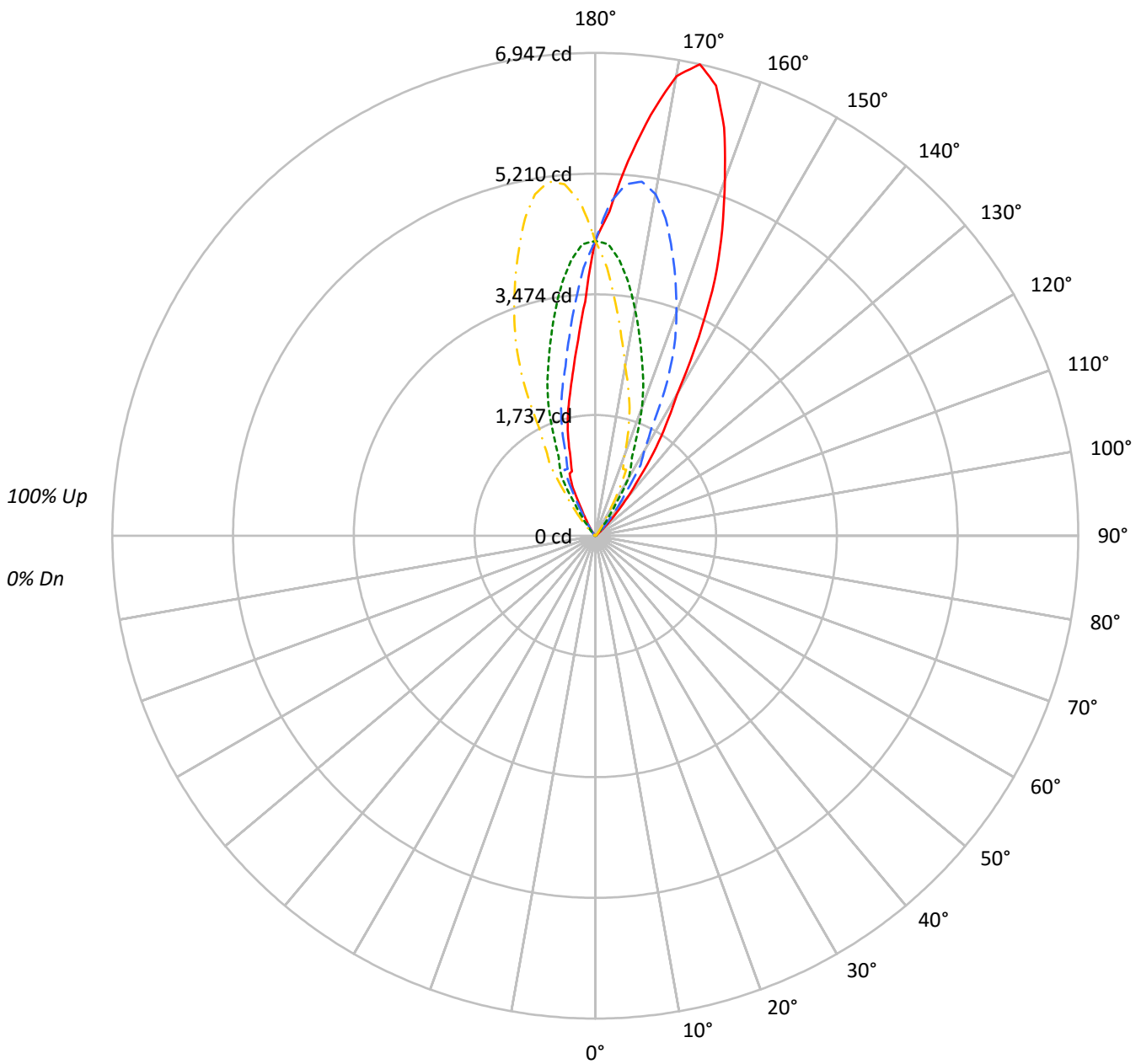
Test Method: LM-46-04  
Report Number: 19069  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 6000A-MH70T6-WFL7-15DEGREETILT  
Description: WITH DIFFUSE SPUN REFLECTOR AND TWO CLEAR GLASS LENS  
  
Light Source: ONE PHILIPS 70 WATT CMH LAMP  
  
CDM70/T6/830. LUMEN RATING = 6600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 6600 (1 lamp)  
Luminaire Lumens: 2498.8 lumens  
Efficiency: 37.9%  
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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### 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	36	36	36	36	31	31	31	31	21	21	21	12	12	12	4	4	4	0
1	33	31	30	29	28	27	26	25	18	18	17	11	10	10	3	3	3	0
2	30	27	25	23	25	23	22	20	16	15	14	9	9	8	3	3	3	0
3	27	24	21	19	23	20	18	17	14	13	12	8	7	7	3	2	2	0
4	25	21	18	16	21	18	16	14	12	11	10	7	6	6	2	2	2	0
5	23	19	16	14	19	16	14	12	11	10	8	6	6	5	2	2	2	0
6	21	17	14	12	18	14	12	10	10	8	7	6	5	4	2	2	1	0
7	19	15	12	10	16	13	10	9	9	7	6	5	4	4	2	1	1	0
8	18	13	11	9	15	11	9	8	8	7	5	5	4	3	1	1	1	0
9	16	12	9	8	14	10	8	7	7	6	5	4	3	3	1	1	1	0
10	15	11	8	7	13	9	7	6	7	5	4	4	3	3	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°	1.0	0.0	0.0
100°-110°	4.9	0.2	0.1
110°-120°	8.9	0.4	0.1
120°-130°	15.1	0.6	0.2
130°-140°	80.5	3.2	1.2
140°-150°	338.2	13.5	5.1
150°-160°	783.0	31.3	11.9
160°-170°	882.1	35.3	13.4
170°-180°	385.2	15.4	5.8
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°	14.8	0.6	0.2
90°-150°	448.5	17.9	6.8
90°-180°	2499.0	100.0	37.9
0°-180°	2498.8	100.0	37.9

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	0	0	3	0	0	1
105°	3	4	7	4	3	5
115°	12	8	8	8	12	11
125°	22	14	11	14	22	28
135°	280	52	22	52	280	245
145°	1456	340	100	340	1456	903
155°	4074	1246	763	1246	4074	1805
165°	6705	2596	1522	2596	6705	1815
175°	5410	3979	2831	3979	5410	556
180°	4241	4241	4241	4241	4241	



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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	2.8	0.5	0.5
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	2.8	2.8	2.8	2.8	2.8
100°	2.8	0.5	0.5	0.5	1.7	2.8	4.4	4.4	4.4	4.4	4.4
102.5°	2.8	2.8	0.5	2.8	2.8	4.4	4.4	4.4	6.8	4.4	4.4
105°	2.8	2.8	2.8	2.8	4.4	4.4	6.8	6.8	6.8	6.8	6.8
107.5°	6.8	6.8	2.8	2.8	4.4	6.8	6.8	8.3	8.3	8.3	6.8
110°	8.3	10.7	8.3	4.4	6.8	6.8	6.8	8.3	8.3	8.3	6.8
112.5°	10.7	12.2	10.7	6.8	6.8	6.8	6.8	6.8	8.3	6.8	6.8
115°	12.2	12.2	12.2	8.3	8.3	6.8	6.8	6.8	8.3	6.8	6.8
117.5°	10.7	12.2	12.2	10.7	9.5	8.3	6.8	8.3	8.3	8.3	6.8
120°	10.7	10.7	12.2	14.6	9.5	8.3	8.3	8.3	8.3	8.3	8.3
122.5°	12.2	10.7	12.2	16.1	12.6	8.3	8.3	10.7	10.7	10.7	8.3
125°	21.6	17.7	14.6	17.7	14.2	10.7	10.7	10.7	10.7	10.7	10.7
127.5°	45.1	37.3	24.0	20.1	21.6	14.6	10.7	10.7	10.7	10.7	10.7
130°	88.9	71.7	42.7	25.5	28.7	21.6	14.6	12.2	12.2	12.2	14.6
132.5°	160.8	128.8	77.1	42.7	37.3	33.3	20.1	16.1	14.6	16.1	20.1
135°	279.7	229.7	134.2	71.7	52.5	45.1	31.0	25.5	21.6	25.5	31.0
137.5°	457.2	371.2	220.3	113.1	79.9	59.9	42.7	34.9	34.9	34.9	42.7
140°	713.0	591.0	359.5	185.9	128.0	86.5	63.9	50.6	46.6	50.6	63.9
142.5°	1001.6	833.4	548.8	306.3	208.9	134.2	92.8	73.2	65.4	73.2	92.8
145°	1456.0	1207.3	796.7	465.1	339.5	225.7	144.4	110.0	99.8	110.0	144.4
147.5°	1890.8	1650.7	1213.5	745.8	573.0	357.9	229.7	172.6	155.4	172.6	229.7
150°	2353.1	1969.0	1404.4	1125.2	962.5	652.0	372.8	279.7	253.1	279.7	372.8
152.5°	3220.4	2698.7	1750.1	1176.8	1106.0	1072.0	694.2	466.6	415.0	466.6	694.2
155°	4073.7	3517.6	2446.9	1461.5	1245.6	1110.3	1046.9	873.3	763.0	873.3	1046.9
157.5°	4765.1	4113.6	2979.5	1967.5	1561.6	1253.4	1039.9	1018.8	968.7	1018.8	1039.9
160°	5446.3	4697.8	3411.2	2359.3	1955.0	1606.9	1224.5	1045.4	985.9	1045.4	1224.5
162.5°	6156.4	5339.9	3836.7	2718.3	2293.2	2005.8	1576.4	1312.9	1194.0	1312.9	1576.4
165°	6704.7	5866.2	4255.1	3061.6	2595.9	2288.1	1904.1	1661.7	1522.5	1661.7	1904.1
167.5°	6947.1	6225.2	4675.1	3443.3	2931.8	2576.7	2181.0	1942.5	1811.1	1942.5	2181.0
170°	6712.5	6288.6	4990.3	3810.1	3302.1	2930.2	2473.5	2223.2	2080.1	2223.2	2473.5
172.5°	6107.1	5996.1	5137.3	4167.5	3663.9	3359.6	2880.2	2584.6	2408.6	2584.6	2880.2
175°	5410.3	5528.4	5076.3	4398.2	3979.0	3758.5	3344.0	3032.7	2830.9	3032.7	3344.0
177.5°	4669.6	4873.8	4787.7	4481.9	4198.8	4138.6	3859.4	3602.1	3370.6	3602.1	3859.4
180°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2



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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°	2.8	1.7	0.5	0.5	0.5	2.8
102.5°	4.4	2.8	2.8	0.5	2.8	2.8
105°	4.4	4.4	2.8	2.8	2.8	2.8
107.5°	6.8	4.4	2.8	2.8	6.8	6.8
110°	6.8	6.8	4.4	8.3	10.7	8.3
112.5°	6.8	6.8	6.8	10.7	12.2	10.7
115°	6.8	8.3	8.3	12.2	12.2	12.2
117.5°	8.3	9.5	10.7	12.2	12.2	10.7
120°	8.3	9.5	14.6	12.2	10.7	10.7
122.5°	8.3	12.6	16.1	12.2	10.7	12.2
125°	10.7	14.2	17.7	14.6	17.7	21.6
127.5°	14.6	21.6	20.1	24.0	37.3	45.1
130°	21.6	28.7	25.5	42.7	71.7	88.9
132.5°	33.3	37.3	42.7	77.1	128.8	160.8
135°	45.1	52.5	71.7	134.2	229.7	279.7
137.5°	59.9	79.9	113.1	220.3	371.2	457.2
140°	86.5	128.0	185.9	359.5	591.0	713.0
142.5°	134.2	208.9	306.3	548.8	833.4	1001.6
145°	225.7	339.5	465.1	796.7	1207.3	1456.0
147.5°	357.9	573.0	745.8	1213.5	1650.7	1890.8
150°	652.0	962.5	1125.2	1404.4	1969.0	2353.1
152.5°	1072.0	1106.0	1176.8	1750.1	2698.7	3220.4
155°	1110.3	1245.6	1461.5	2446.9	3517.6	4073.7
157.5°	1253.4	1561.6	1967.5	2979.5	4113.6	4765.1
160°	1606.9	1955.0	2359.3	3411.2	4697.8	5446.3
162.5°	2005.8	2293.2	2718.3	3836.7	5339.9	6156.4
165°	2288.1	2595.9	3061.6	4255.1	5866.2	6704.7
167.5°	2576.7	2931.8	3443.3	4675.1	6225.2	6947.1
170°	2930.2	3302.1	3810.1	4990.3	6288.6	6712.5
172.5°	3359.6	3663.9	4167.5	5137.3	5996.1	6107.1
175°	3758.5	3979.0	4398.2	5076.3	5528.4	5410.3
177.5°	4138.6	4198.8	4481.9	4787.7	4873.8	4669.6
180°	4241.2	4241.2	4241.2	4241.2	4241.2	4241.2

(END OF REPORT)