

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: 19063

Luminaire Tested: **6000A-MH70T4-WFL7-15DEGREETILT**

Issue Date: 3/3/2020

**Test Information**

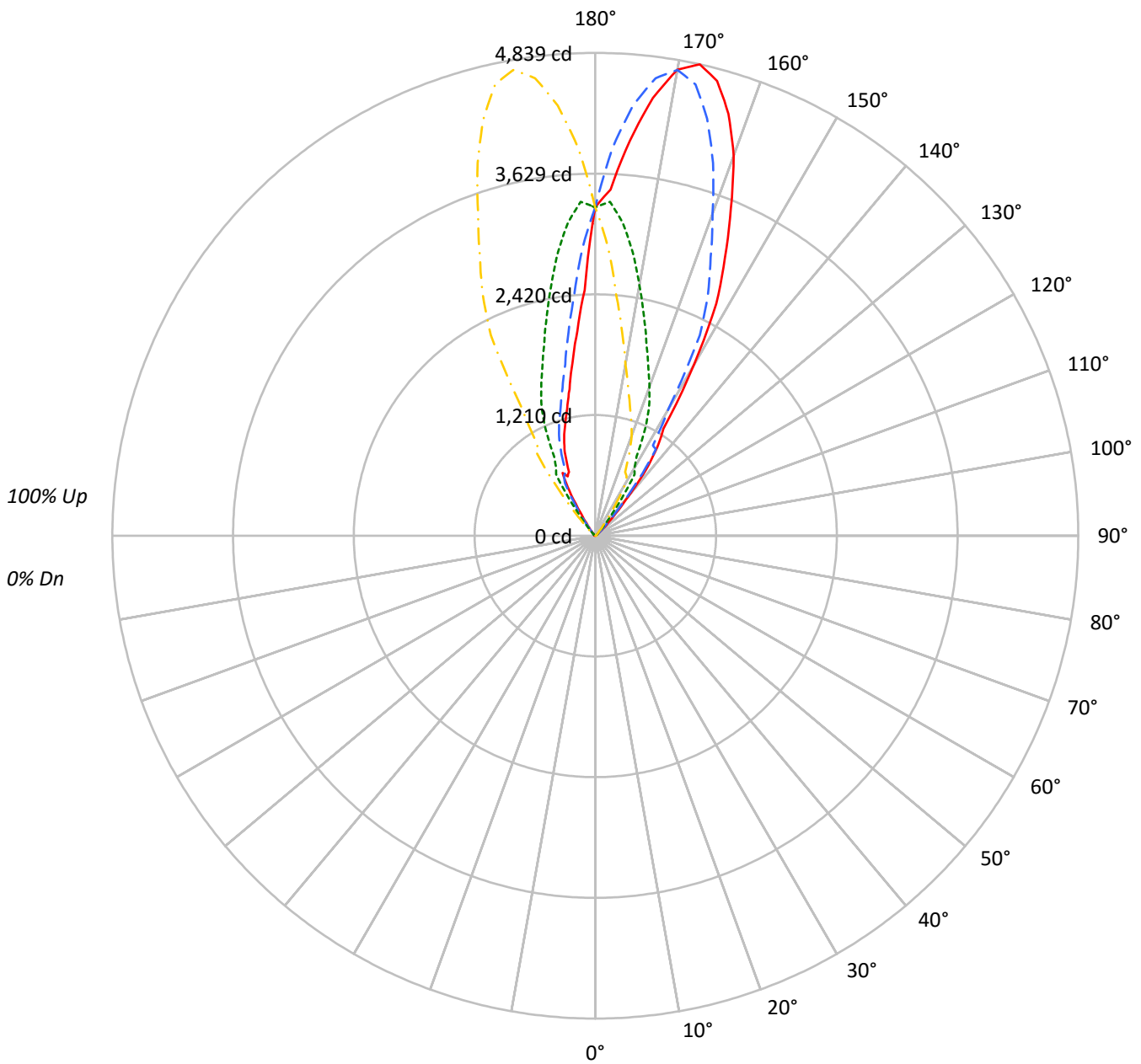
Test Method: LM-46-04  
Report Number: 19063  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 6000A-MH70T4-WFL7-15DEGREETILT  
Description: WITH DIFFUSE SPUN REFLECTOR AND TWO CLEAR GLASS LENS  
  
Light Source: ONE PHILIPS 70 WATT CMH LAMP  
  
CDM70/TC/830. LUMEN RATING = 6400 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 6400 (1 lamp)  
Luminaire Lumens: 2264.5 lumens  
Efficiency: 35.4%  
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<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	34	34	34	34	29	29	29	29	20	20	20	11	11	11	4	4	4	0
1	31	29	28	27	26	25	24	23	17	17	16	10	10	9	3	3	3	0
2	28	25	24	22	24	22	20	19	15	14	13	9	8	8	3	3	3	0
3	25	22	20	18	22	19	17	16	13	12	11	8	7	6	2	2	2	0
4	23	20	17	15	20	17	15	13	12	10	9	7	6	6	2	2	2	0
5	21	17	15	13	18	15	13	11	10	9	8	6	5	5	2	2	2	0
6	19	15	13	11	16	13	11	10	9	8	7	5	5	4	2	2	1	0
7	18	14	11	10	15	12	10	8	8	7	6	5	4	3	2	1	1	0
8	16	12	10	8	14	11	9	7	7	6	5	4	4	3	1	1	1	0
9	15	11	9	7	13	10	8	6	7	5	4	4	3	3	1	1	1	0
10	14	10	8	6	12	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°	1.1	0.0	0.0
100°-110°	5.6	0.2	0.1
110°-120°	8.3	0.4	0.1
120°-130°	14.2	0.6	0.2
130°-140°	73.1	3.2	1.1
140°-150°	368.5	16.3	5.8
150°-160°	742.5	32.8	11.6
160°-170°	745.2	32.9	11.6
170°-180°	306.0	13.5	4.8
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°	15.1	0.7	0.2
90°-150°	470.9	20.8	7.4
90°-180°	2264.0	100.0	35.4
0°-180°	2264.5	100.0	35.4

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	0	0	3	0	0	1
105°	3	6	8	6	3	3
115°	4	10	8	10	4	4
125°	22	11	8	11	22	23
135°	178	50	28	50	178	165
145°	1080	485	154	485	1080	682
155°	3075	1180	657	1180	3075	1392
165°	4717	1982	1161	1982	4717	1293
175°	3975	3150	2061	3150	3975	404
180°	3291	3291	3291	3291	3291	



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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	2.8	2.8	2.8	2.8	2.8	2.8
100°	0.5	0.5	0.5	0.5	2.8	4.4	4.4	4.4	4.4	4.4	4.4
102.5°	2.8	0.5	0.5	2.8	3.6	6.8	6.8	6.8	6.8	6.8	6.8
105°	2.8	2.8	2.8	2.8	5.6	8.3	8.3	8.3	8.3	8.3	8.3
107.5°	2.8	2.8	2.8	4.4	7.5	10.7	10.7	10.7	8.3	10.7	10.7
110°	2.8	2.8	4.4	4.4	8.7	10.7	10.7	10.7	8.3	10.7	10.7
112.5°	2.8	4.4	4.4	6.8	9.5	10.7	12.2	10.7	8.3	10.7	12.2
115°	4.4	4.4	4.4	6.8	9.5	10.7	12.2	12.2	8.3	12.2	12.2
117.5°	4.4	6.8	6.8	6.8	9.5	10.7	12.2	12.2	10.7	12.2	12.2
120°	8.3	8.3	8.3	6.8	8.7	8.3	10.7	12.2	8.3	12.2	10.7
122.5°	14.6	14.6	12.2	8.3	9.5	10.7	10.7	10.7	8.3	10.7	10.7
125°	21.6	21.6	16.1	10.7	11.4	12.2	12.2	10.7	8.3	10.7	12.2
127.5°	34.9	37.2	27.9	17.7	14.2	14.6	12.2	12.2	10.7	12.2	12.2
130°	59.9	62.2	45.0	27.9	22.8	16.1	14.6	14.6	12.2	14.6	14.6
132.5°	106.0	107.6	77.1	46.6	31.4	23.9	20.0	20.0	20.0	20.0	20.0
135°	177.9	180.2	128.7	77.1	50.1	41.1	33.3	29.4	27.9	29.4	33.3
137.5°	306.0	302.1	214.6	124.7	82.9	59.9	46.6	41.1	37.2	41.1	46.6
140°	516.3	535.0	395.9	216.2	144.7	98.2	71.6	62.2	58.3	62.2	71.6
142.5°	838.2	924.2	717.9	430.3	258.4	180.2	120.8	102.1	95.8	102.1	120.8
145°	1080.5	1130.5	1057.8	824.9	484.6	335.0	227.9	172.4	153.7	172.4	227.9
147.5°	1271.1	1322.7	1072.6	945.3	729.6	533.4	406.8	315.4	277.1	315.4	406.8
150°	1977.5	2099.4	1462.6	974.2	783.1	681.9	609.2	548.3	523.3	548.3	609.2
152.5°	2623.8	2831.7	2267.5	1342.2	891.7	716.3	678.0	714.0	710.8	714.0	678.0
155°	3074.7	3291.9	2667.6	1843.9	1180.5	884.3	704.6	663.2	656.9	663.2	704.6
157.5°	3551.4	3833.5	3020.8	2094.0	1411.4	1086.7	884.3	741.3	691.3	741.3	884.3
160°	4053.0	4400.0	3434.9	2343.3	1582.5	1240.6	1063.3	946.8	895.2	946.8	1063.3
162.5°	4434.4	4915.0	3917.9	2634.0	1766.6	1382.1	1199.2	1096.1	1039.0	1096.1	1199.2
165°	4717.3	5247.1	4328.1	2959.8	1981.8	1544.6	1338.3	1221.9	1160.9	1221.9	1338.3
167.5°	4839.2	5405.7	4632.9	3299.7	2251.0	1752.5	1517.3	1380.5	1301.6	1380.5	1517.3
170°	4743.8	5318.2	4739.9	3606.8	2547.6	2015.8	1740.8	1582.1	1490.7	1582.1	1740.8
172.5°	4426.6	4936.1	4625.1	3791.3	2867.6	2349.5	2055.7	1868.9	1752.5	1868.9	2055.7
175°	3974.9	4423.5	4328.1	3837.4	3149.7	2717.6	2418.3	2215.9	2061.2	2215.9	2418.3
177.5°	3473.2	3806.9	3881.1	3717.0	3349.8	3123.9	2896.5	2660.5	2463.6	2660.5	2896.5
180°	3291.1	3291.1	3291.1	3291.1	3291.1	3291.1	3291.1	3291.1	3291.1	3291.1	3291.1



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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°	2.8	0.5	0.5	0.5	0.5	0.5
100°	4.4	2.8	0.5	0.5	0.5	0.5
102.5°	6.8	3.6	2.8	0.5	0.5	2.8
105°	8.3	5.6	2.8	2.8	2.8	2.8
107.5°	10.7	7.5	4.4	2.8	2.8	2.8
110°	10.7	8.7	4.4	4.4	2.8	2.8
112.5°	10.7	9.5	6.8	4.4	4.4	2.8
115°	10.7	9.5	6.8	4.4	4.4	4.4
117.5°	10.7	9.5	6.8	6.8	6.8	4.4
120°	8.3	8.7	6.8	8.3	8.3	8.3
122.5°	10.7	9.5	8.3	12.2	14.6	14.6
125°	12.2	11.4	10.7	16.1	21.6	21.6
127.5°	14.6	14.2	17.7	27.9	37.2	34.9
130°	16.1	22.8	27.9	45.0	62.2	59.9
132.5°	23.9	31.4	46.6	77.1	107.6	106.0
135°	41.1	50.1	77.1	128.7	180.2	177.9
137.5°	59.9	82.9	124.7	214.6	302.1	306.0
140°	98.2	144.7	216.2	395.9	535.0	516.3
142.5°	180.2	258.4	430.3	717.9	924.2	838.2
145°	335.0	484.6	824.9	1057.8	1130.5	1080.5
147.5°	533.4	729.6	945.3	1072.6	1322.7	1271.1
150°	681.9	783.1	974.2	1462.6	2099.4	1977.5
152.5°	716.3	891.7	1342.2	2267.5	2831.7	2623.8
155°	884.3	1180.5	1843.9	2667.6	3291.9	3074.7
157.5°	1086.7	1411.4	2094.0	3020.8	3833.5	3551.4
160°	1240.6	1582.5	2343.3	3434.9	4400.0	4053.0
162.5°	1382.1	1766.6	2634.0	3917.9	4915.0	4434.4
165°	1544.6	1981.8	2959.8	4328.1	5247.1	4717.3
167.5°	1752.5	2251.0	3299.7	4632.9	5405.7	4839.2
170°	2015.8	2547.6	3606.8	4739.9	5318.2	4743.8
172.5°	2349.5	2867.6	3791.3	4625.1	4936.1	4426.6
175°	2717.6	3149.7	3837.4	4328.1	4423.5	3974.9
177.5°	3123.9	3349.8	3717.0	3881.1	3806.9	3473.2
180°	3291.1	3291.1	3291.1	3291.1	3291.1	3291.1

(END OF REPORT)