

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: 19067

Luminaire Tested: **6000A-MH70T6-MFL4-15DEGREETILT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 19067
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 6000A-MH70T6-MFL4-15DEGREETILT
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: -

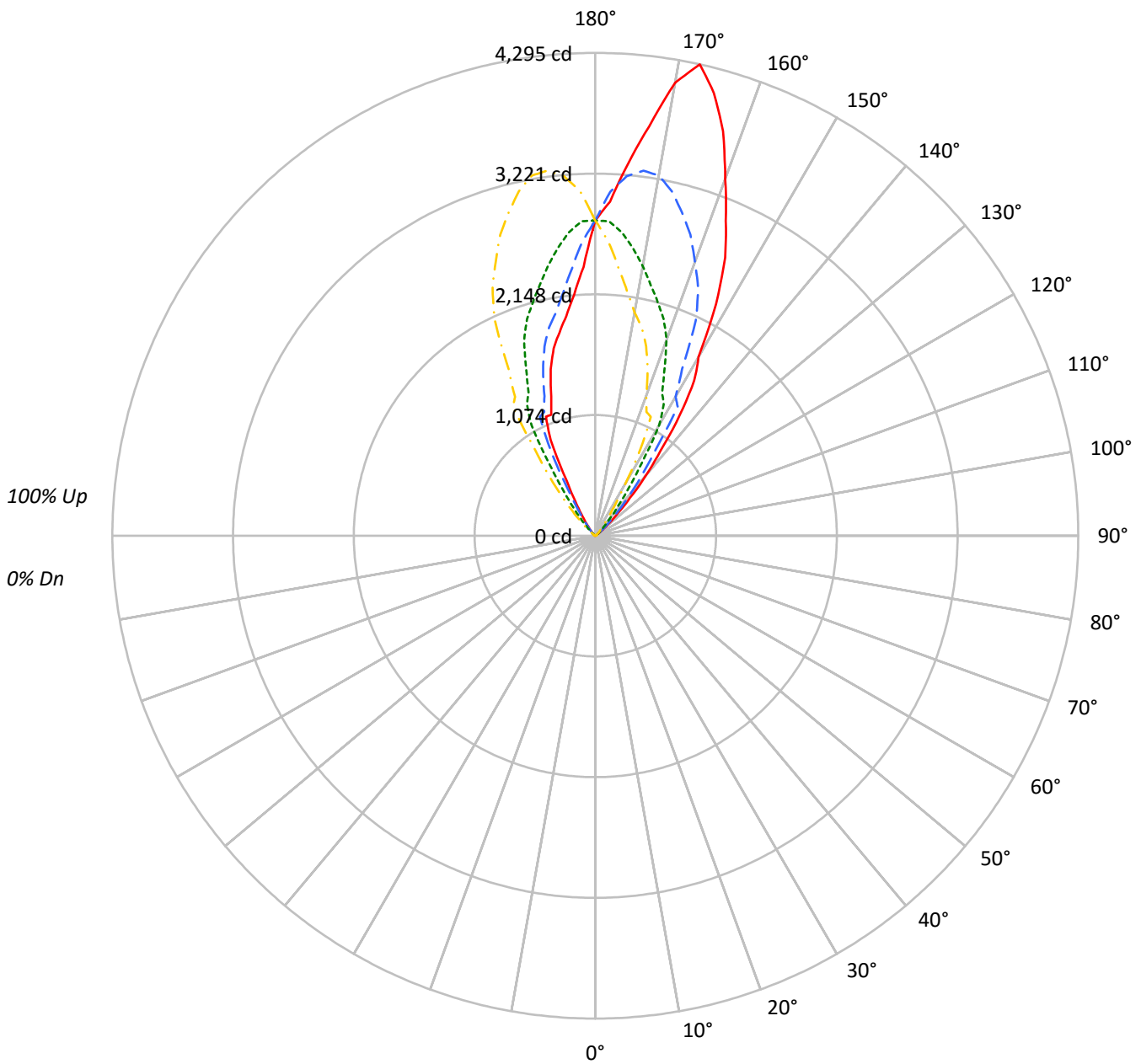
Summary

Lumens per Lamp: 6600 (1 lamp)
Luminaire Lumens: 2173.0 lumens
Efficiency: 32.9%
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_{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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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	20		
RCR																				
0	31	31	31	31	27	27	27	27	18	18	18	11	11	11	3	3	3	0		
1	29	27	26	25	24	23	22	21	16	15	15	9	9	9	3	3	3	0		
2	26	24	22	20	22	20	19	18	14	13	12	8	8	7	3	2	2	0		
3	24	21	19	17	20	18	16	15	12	11	10	7	7	6	2	2	2	0		
4	22	18	16	14	18	16	14	12	11	10	9	6	6	5	2	2	2	0		
5	20	16	14	12	17	14	12	10	10	8	7	6	5	4	2	2	1	0		
6	18	14	12	10	15	12	10	9	9	7	6	5	4	4	2	1	1	0		
7	17	13	11	9	14	11	9	8	8	6	5	4	4	3	1	1	1	0		
8	15	12	9	8	13	10	8	7	7	6	5	4	3	3	1	1	1	0		
9	14	11	8	7	12	9	7	6	6	5	4	4	3	2	1	1	1	0		
10	13	10	7	6	11	8	6	5	6	4	4	3	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°	1.3	0.1	0.0
100°-110°	6.3	0.3	0.1
110°-120°	11.3	0.5	0.2
120°-130°	19.6	0.9	0.3
130°-140°	104.5	4.8	1.6
140°-150°	385.7	17.7	5.8
150°-160°	714.0	32.9	10.8
160°-170°	668.9	30.8	10.1
170°-180°	261.6	12.0	4.0
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°	18.8	0.9	0.3
90°-150°	528.6	24.3	8.0
90°-180°	2173.0	100.0	32.9
0°-180°	2173.0	100.0	32.9

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	5
115°	12	10	8	10	12	12
125°	28	19	11	19	28	33
135°	284	86	31	86	284	248
145°	1313	514	155	514	1313	797
155°	2732	1403	938	1403	2732	1217
165°	4075	2148	1534	2148	4075	1113
175°	3317	2707	2153	2707	3317	340
180°	2803	2803	2803	2803	2803	



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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	2.8	2.8	2.8	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°	2.8	0.5	0.5	2.8	2.8	4.4	4.4	4.4	4.4	4.4	4.4
102.5°	2.8	2.8	2.8	2.8	4.4	6.8	6.8	6.8	6.8	6.8	6.8
105°	2.8	2.8	2.8	4.4	5.6	6.8	8.3	8.3	8.3	8.3	8.3
107.5°	6.8	6.8	4.4	4.4	6.8	8.3	10.7	10.7	10.7	10.7	10.7
110°	8.3	8.3	8.3	6.8	7.5	8.3	10.7	10.7	10.7	10.7	10.7
112.5°	10.7	10.7	10.7	8.3	9.5	10.7	12.2	10.7	8.3	10.7	12.2
115°	12.2	14.6	12.2	10.7	10.3	12.2	12.2	10.7	8.3	10.7	12.2
117.5°	14.6	16.1	14.6	12.2	12.6	12.2	12.2	10.7	8.3	10.7	12.2
120°	14.6	14.6	16.1	14.6	14.2	12.2	10.7	10.7	8.3	10.7	10.7
122.5°	14.6	16.1	17.7	17.7	16.1	12.2	10.7	12.2	10.7	12.2	10.7
125°	27.9	25.5	21.6	21.6	18.9	14.6	12.2	12.2	10.7	12.2	12.2
127.5°	52.1	50.6	38.8	29.4	23.6	17.7	12.2	12.2	10.7	12.2	12.2
130°	99.8	92.8	71.7	46.6	35.3	25.5	16.1	12.2	12.2	12.2	16.1
132.5°	172.6	159.3	120.9	77.1	57.2	37.3	25.5	17.7	17.7	17.7	25.5
135°	283.6	264.1	199.2	128.8	86.1	56.0	41.2	31.0	31.0	31.0	41.2
137.5°	457.2	417.4	314.1	203.1	133.8	86.5	62.3	48.2	46.6	48.2	62.3
140°	701.3	652.0	487.7	319.6	215.6	127.2	86.5	73.2	69.3	73.2	86.5
142.5°	951.5	860.0	684.1	479.9	334.8	203.1	130.3	107.6	102.2	107.6	130.3
145°	1312.9	1200.2	928.9	663.7	513.6	331.3	212.4	164.7	155.4	164.7	212.4
147.5°	1637.4	1539.7	1362.1	984.4	768.5	518.3	321.9	253.1	233.6	253.1	321.9
150°	1836.1	1669.5	1427.1	1327.7	1134.9	838.9	530.0	390.0	356.4	390.0	530.0
152.5°	2322.6	2148.9	1669.5	1350.4	1317.6	1183.0	865.5	630.9	554.2	630.9	865.5
155°	2731.6	2542.3	2114.5	1576.4	1403.2	1265.2	1167.4	1016.4	938.2	1016.4	1167.4
157.5°	3032.7	2834.0	2387.5	1908.0	1604.6	1362.1	1190.1	1148.6	1146.3	1148.6	1190.1
160°	3376.8	3130.5	2590.0	2109.0	1850.2	1574.1	1322.2	1175.2	1144.7	1175.2	1322.2
162.5°	3774.1	3481.6	2807.5	2278.8	2019.1	1803.2	1543.6	1371.5	1301.1	1371.5	1543.6
165°	4075.2	3726.4	2975.6	2433.6	2147.8	1954.2	1743.8	1600.7	1534.2	1600.7	1743.8
167.5°	4295.0	3928.2	3138.3	2584.6	2282.3	2074.6	1898.7	1774.3	1707.8	1774.3	1898.7
170°	4092.4	3922.7	3252.5	2721.4	2431.7	2215.4	2015.2	1906.5	1836.1	1906.5	2015.2
172.5°	3672.5	3699.1	3275.2	2848.1	2575.6	2385.9	2184.9	2049.6	1971.4	2049.6	2184.9
175°	3317.4	3397.9	3210.2	2918.5	2707.3	2563.4	2385.9	2242.8	2152.8	2242.8	2385.9
177.5°	2974.0	3082.8	3063.2	2926.3	2800.0	2742.5	2620.5	2502.4	2392.9	2502.4	2620.5
180°	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8



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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	2.8	0.5	0.5	2.8
102.5°	6.8	4.4	2.8	2.8	2.8	2.8
105°	6.8	5.6	4.4	2.8	2.8	2.8
107.5°	8.3	6.8	4.4	4.4	6.8	6.8
110°	8.3	7.5	6.8	8.3	8.3	8.3
112.5°	10.7	9.5	8.3	10.7	10.7	10.7
115°	12.2	10.3	10.7	12.2	14.6	12.2
117.5°	12.2	12.6	12.2	14.6	16.1	14.6
120°	12.2	14.2	14.6	16.1	14.6	14.6
122.5°	12.2	16.1	17.7	17.7	16.1	14.6
125°	14.6	18.9	21.6	21.6	25.5	27.9
127.5°	17.7	23.6	29.4	38.8	50.6	52.1
130°	25.5	35.3	46.6	71.7	92.8	99.8
132.5°	37.3	57.2	77.1	120.9	159.3	172.6
135°	56.0	86.1	128.8	199.2	264.1	283.6
137.5°	86.5	133.8	203.1	314.1	417.4	457.2
140°	127.2	215.6	319.6	487.7	652.0	701.3
142.5°	203.1	334.8	479.9	684.1	860.0	951.5
145°	331.3	513.6	663.7	928.9	1200.2	1312.9
147.5°	518.3	768.5	984.4	1362.1	1539.7	1637.4
150°	838.9	1134.9	1327.7	1427.1	1669.5	1836.1
152.5°	1183.0	1317.6	1350.4	1669.5	2148.9	2322.6
155°	1265.2	1403.2	1576.4	2114.5	2542.3	2731.6
157.5°	1362.1	1604.6	1908.0	2387.5	2834.0	3032.7
160°	1574.1	1850.2	2109.0	2590.0	3130.5	3376.8
162.5°	1803.2	2019.1	2278.8	2807.5	3481.6	3774.1
165°	1954.2	2147.8	2433.6	2975.6	3726.4	4075.2
167.5°	2074.6	2282.3	2584.6	3138.3	3928.2	4295.0
170°	2215.4	2431.7	2721.4	3252.5	3922.7	4092.4
172.5°	2385.9	2575.6	2848.1	3275.2	3699.1	3672.5
175°	2563.4	2707.3	2918.5	3210.2	3397.9	3317.4
177.5°	2742.5	2800.0	2926.3	3063.2	3082.8	2974.0
180°	2802.8	2802.8	2802.8	2802.8	2802.8	2802.8

(END OF REPORT)