

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: 19057

Luminaire Tested: **6000A-MH70T4-SP1-15DEGREETILT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 19057
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 6000A-MH70T4-SP1-15DEGREETILT
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: -

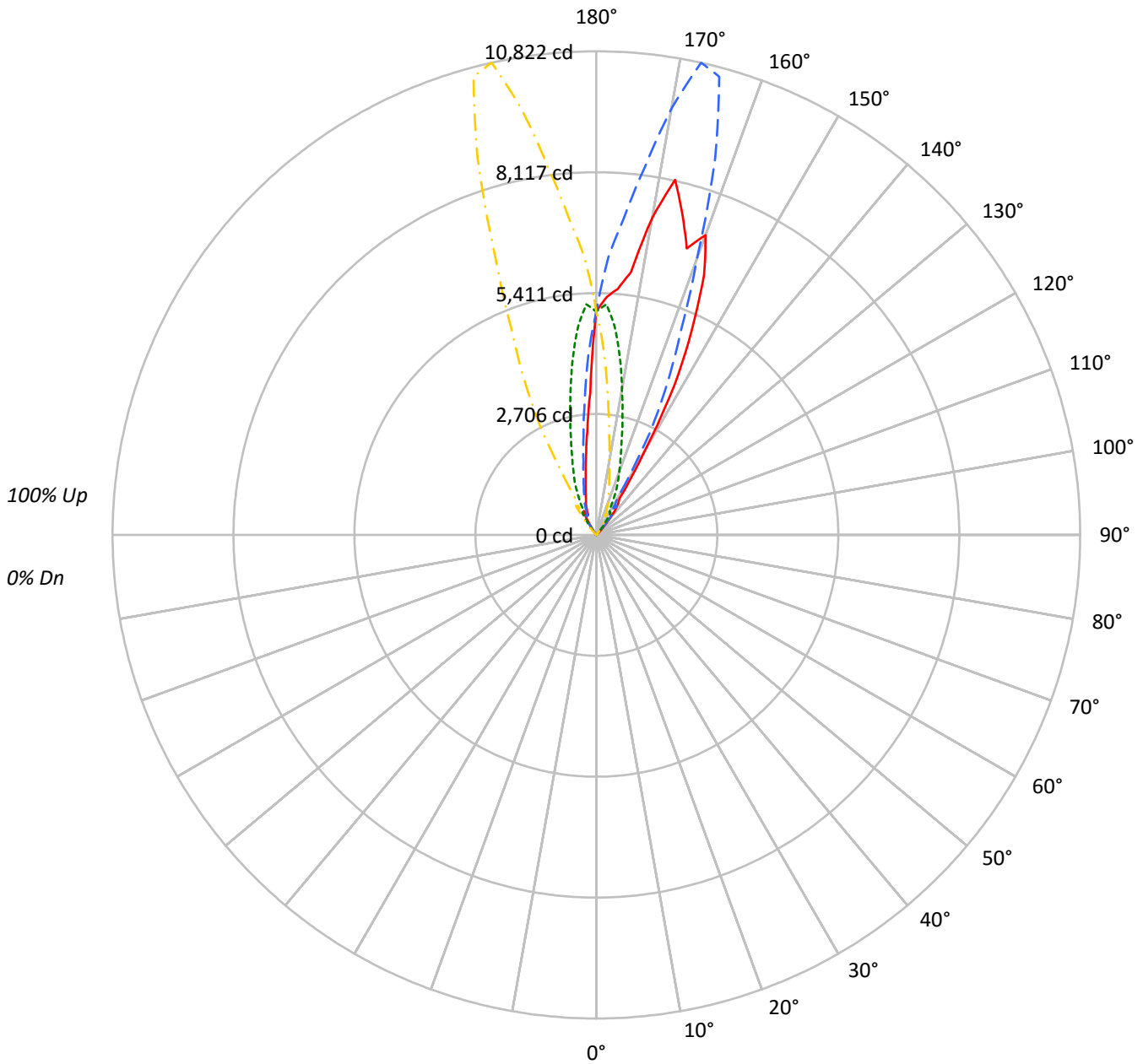
Summary

Lumens per Lamp: 6400 (1 lamp)
Luminaire Lumens: 2946.8 lumens
Efficiency: 46.0%
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	44	44	44	44	37	37	37	37	26	26	26	15	15	15	5	5	5	0
1	40	38	36	35	34	33	31	30	22	21	21	13	12	12	4	4	4	0
2	36	33	31	28	31	28	26	25	19	18	17	11	11	10	4	3	3	0
3	33	29	26	24	28	25	22	20	17	16	14	10	9	8	3	3	3	0
4	30	26	22	20	26	22	19	17	15	13	12	9	8	7	3	3	2	0
5	28	23	19	17	23	19	17	15	13	12	10	8	7	6	3	2	2	0
6	25	20	17	14	21	17	15	12	12	10	9	7	6	5	2	2	2	0
7	23	18	15	12	20	16	13	11	11	9	8	6	5	5	2	2	2	0
8	21	16	13	11	18	14	11	9	10	8	7	6	5	4	2	2	1	0
9	20	15	12	9	17	13	10	8	9	7	6	5	4	3	2	1	1	0
10	18	13	10	8	16	11	9	7	8	6	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°				



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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°	0.7	0.0	0.0
100°-110°	3.0	0.1	0.0
110°-120°	5.9	0.2	0.1
120°-130°	6.1	0.2	0.1
130°-140°	42.9	1.5	0.7
140°-150°	280.7	9.5	4.4
150°-160°	932.4	31.6	14.6
160°-170°	1220.6	41.4	19.1
170°-180°	454.5	15.4	7.1
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°	9.6	0.3	0.1
90°-150°	339.2	11.5	5.3
90°-180°	2947.0	100.0	46.0
0°-180°	2946.8	100.0	46.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	0	0	0	0	0	1
105°	0	3	5	3	0	1
115°	0	5	5	5	0	2
125°	5	5	5	5	5	8
135°	103	26	17	26	103	107
145°	845	395	132	395	845	570
155°	5037	954	496	954	5037	2217
165°	7425	2180	908	2180	7425	2071
175°	5528	4681	2319	4681	5528	573
180°	5004	5004	5004	5004	5004	



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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	5.2	0.5	5.2	0.5	5.2
102.5°	0.5	0.5	0.5	0.5	0.5	5.2	5.2	5.2	5.2	5.2	5.2
105°	0.5	0.5	0.5	0.5	2.8	5.2	5.2	5.2	5.2	5.2	5.2
107.5°	0.5	0.5	0.5	0.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2
110°	0.5	0.5	0.5	0.5	5.2	5.2	5.2	12.2	5.2	12.2	5.2
112.5°	0.5	0.5	5.2	5.2	5.2	5.2	12.2	12.2	5.2	12.2	12.2
115°	0.5	0.5	5.2	5.2	5.2	5.2	12.2	12.2	5.2	12.2	12.2
117.5°	5.2	0.5	5.2	5.2	5.2	5.2	12.2	12.2	5.2	12.2	12.2
120°	5.2	5.2	5.2	5.2	5.2	5.2	12.2	12.2	5.2	12.2	12.2
122.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
125°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
127.5°	12.2	12.2	12.2	5.2	8.7	5.2	5.2	5.2	5.2	5.2	5.2
130°	23.9	16.9	16.9	12.2	12.2	5.2	5.2	5.2	5.2	5.2	5.2
132.5°	52.0	47.3	35.6	23.9	16.9	12.2	12.2	12.2	12.2	12.2	12.2
135°	103.4	91.7	63.7	40.3	26.2	23.9	16.9	16.9	16.9	16.9	16.9
137.5°	206.3	183.0	115.1	75.4	47.3	35.6	28.6	23.9	23.9	23.9	28.6
140°	393.5	384.1	281.2	143.2	89.4	56.6	47.3	40.3	40.3	40.3	47.3
142.5°	657.8	685.9	536.2	342.0	178.3	119.8	87.1	75.4	75.4	75.4	87.1
145°	845.0	833.3	793.5	678.9	394.7	241.4	178.3	143.2	131.5	143.2	178.3
147.5°	966.6	903.4	702.3	702.3	588.8	412.2	321.0	285.9	257.8	285.9	321.0
150°	2131.5	1839.1	954.9	634.4	585.3	508.1	491.7	463.7	475.4	463.7	491.7
152.5°	3787.7	4009.9	2632.1	1039.1	650.8	491.7	496.4	578.3	606.4	578.3	496.4
155°	5036.8	5535.0	3780.6	1930.3	953.7	606.4	468.3	475.4	496.4	475.4	468.3
157.5°	6288.3	7476.6	4912.8	2377.1	1240.3	805.2	611.0	508.1	480.0	508.1	611.0
160°	7139.7	9572.5	6590.0	2889.4	1492.9	954.9	760.7	674.2	650.8	674.2	760.7
162.5°	6723.4	11696.5	8824.0	3654.3	1799.3	1125.7	903.4	805.2	772.4	805.2	903.4
165°	7425.1	11462.6	10618.1	4585.3	2179.5	1347.9	1078.9	971.3	908.1	971.3	1078.9
167.5°	8138.6	10690.6	10821.6	5598.2	2696.4	1668.3	1336.2	1193.5	1097.6	1193.5	1336.2
170°	7207.6	9497.7	9696.5	6304.6	3304.6	2124.5	1668.3	1474.2	1375.9	1474.2	1668.3
172.5°	5923.4	7790.0	8297.6	6590.0	4015.7	2798.2	2211.0	1906.9	1759.6	1906.9	2211.0
175°	5528.0	6402.9	7128.0	6466.0	4681.2	3598.2	2987.7	2571.3	2318.6	2571.3	2987.7
177.5°	5329.2	5871.9	6225.1	6042.7	5165.5	4580.7	4033.3	3563.1	3174.8	3563.1	4033.3
180°	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6



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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°	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	5.2	0.5	0.5	0.5	0.5	0.5
105°	5.2	2.8	0.5	0.5	0.5	0.5
107.5°	5.2	5.2	0.5	0.5	0.5	0.5
110°	5.2	5.2	0.5	0.5	0.5	0.5
112.5°	5.2	5.2	5.2	5.2	0.5	0.5
115°	5.2	5.2	5.2	5.2	0.5	0.5
117.5°	5.2	5.2	5.2	5.2	0.5	5.2
120°	5.2	5.2	5.2	5.2	5.2	5.2
122.5°	5.2	5.2	5.2	5.2	5.2	5.2
125°	5.2	5.2	5.2	5.2	5.2	5.2
127.5°	5.2	8.7	5.2	12.2	12.2	12.2
130°	5.2	12.2	12.2	16.9	16.9	23.9
132.5°	12.2	16.9	23.9	35.6	47.3	52.0
135°	23.9	26.2	40.3	63.7	91.7	103.4
137.5°	35.6	47.3	75.4	115.1	183.0	206.3
140°	56.6	89.4	143.2	281.2	384.1	393.5
142.5°	119.8	178.3	342.0	536.2	685.9	657.8
145°	241.4	394.7	678.9	793.5	833.3	845.0
147.5°	412.2	588.8	702.3	702.3	903.4	966.6
150°	508.1	585.3	634.4	954.9	1839.1	2131.5
152.5°	491.7	650.8	1039.1	2632.1	4009.9	3787.7
155°	606.4	953.7	1930.3	3780.6	5535.0	5036.8
157.5°	805.2	1240.3	2377.1	4912.8	7476.6	6288.3
160°	954.9	1492.9	2889.4	6590.0	9572.5	7139.7
162.5°	1125.7	1799.3	3654.3	8824.0	11696.5	6723.4
165°	1347.9	2179.5	4585.3	10618.1	11462.6	7425.1
167.5°	1668.3	2696.4	5598.2	10821.6	10690.6	8138.6
170°	2124.5	3304.6	6304.6	9696.5	9497.7	7207.6
172.5°	2798.2	4015.7	6590.0	8297.6	7790.0	5923.4
175°	3598.2	4681.2	6466.0	7128.0	6402.9	5528.0
177.5°	4580.7	5165.5	6042.7	6225.1	5871.9	5329.2
180°	5003.6	5003.6	5003.6	5003.6	5003.6	5003.6

(END OF REPORT)