

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582184

Luminaire Tested: **HC630D010-HM63040840-61NDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040840-61NDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3647.1 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

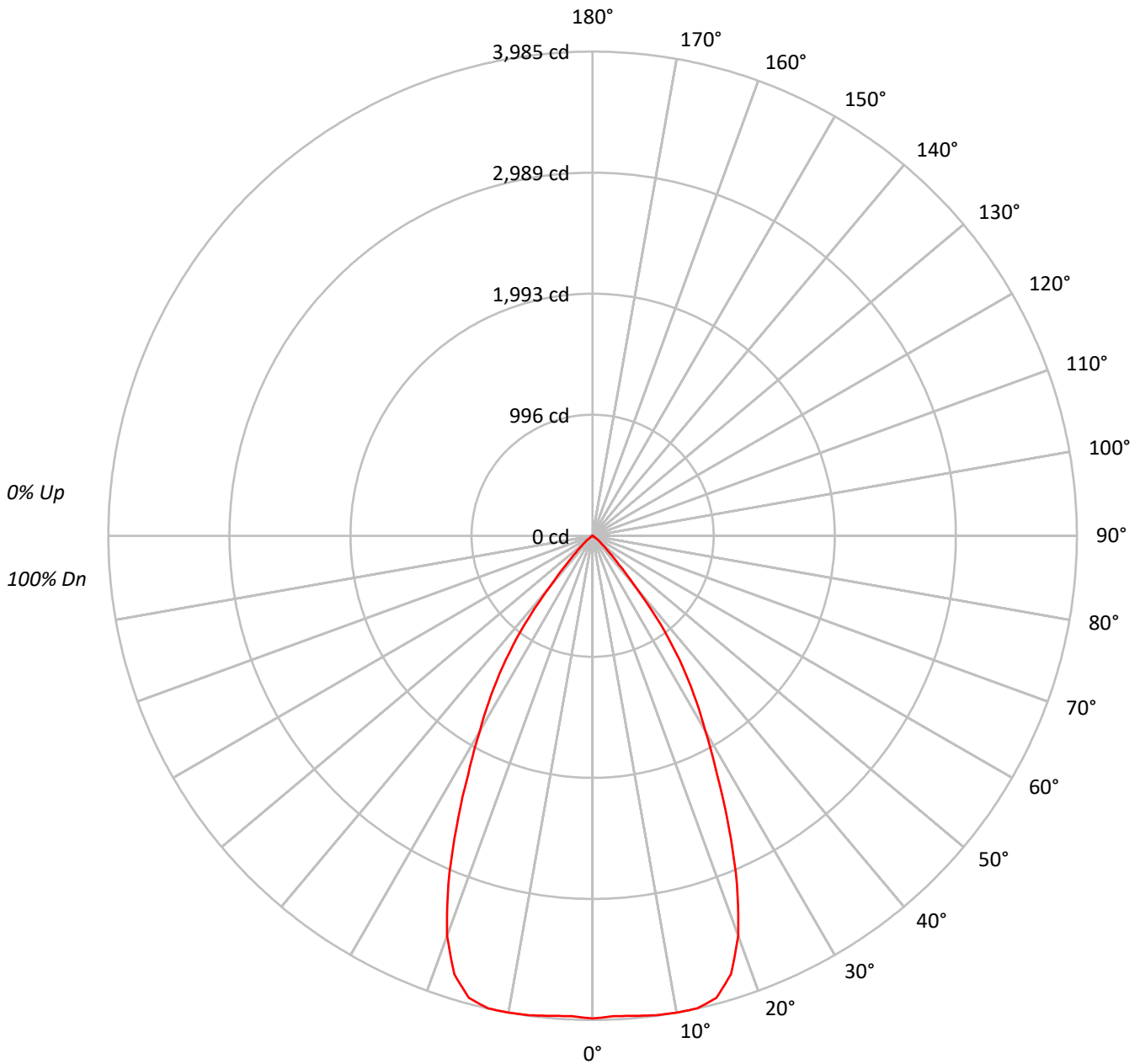
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55			
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	217811
5°	218247
10°	221840
15°	223458
20°	204266
25°	160509
30°	117486
35°	83346
40°	39424
45°	15040
50°	6746
55°	1826
60°	778
65°	623
70°	385
75°	508
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.4	10.4
10°-20°	1088.2	29.8
20°-30°	1210.5	33.2
30°-40°	756.2	20.7
40°-50°	179.7	4.9
50°-60°	25.7	0.7
60°-70°	5.3	0.1
70°-80°	2.2	0.1
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2678.1	73.4
0°-40°	3434.3	94.2
0°-60°	3639.6	99.8
0°-90°	3647.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3647.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3973	
5°	3966	379
15°	3937	1088
25°	2654	1210
35°	1245	756
45°	194	180
55°	19	26
65°	5	5
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3973.2
2.5°	3956.4
5°	3966.0
7.5°	3980.4
10°	3985.2
12.5°	3982.8
15°	3937.3
17.5°	3784.0
20°	3501.4
22.5°	3103.9
25°	2653.6
27.5°	2222.5
30°	1856.0
32.5°	1551.9
35°	1245.4
37.5°	914.8
40°	550.9
42.5°	318.5
45°	194.0
47.5°	124.5
50°	79.1
52.5°	45.5
55°	19.1
57.5°	9.6
60°	7.1
62.5°	7.1
65°	4.8
67.5°	4.8
70°	2.4
72.5°	2.4
75°	2.4
77.5°	2.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)