

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: P583285

Luminaire Tested: **HC607D010-HM60525827-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC607D010-HM60525827-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 832.1 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

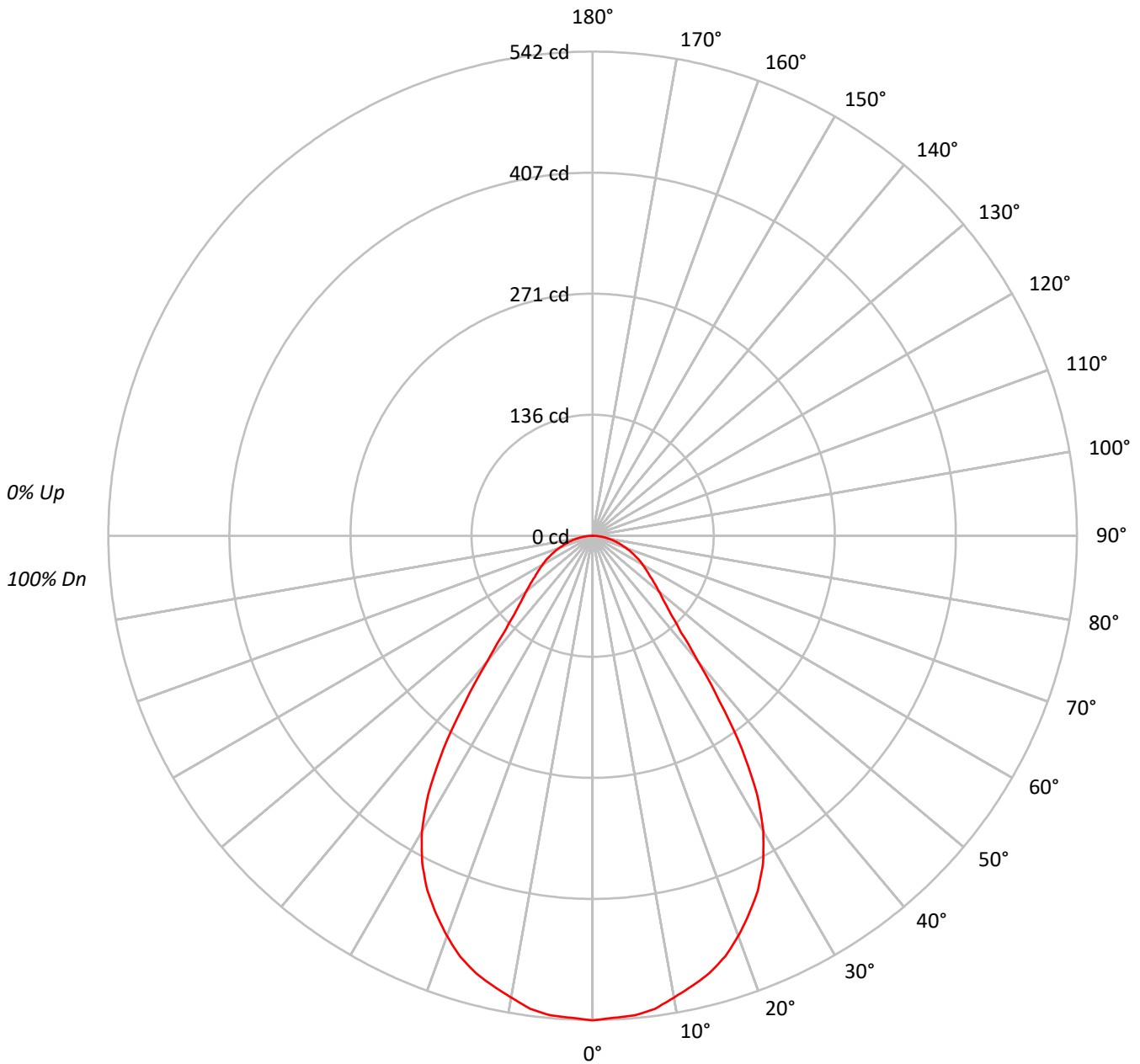
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

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

	0°
0°	29740
5°	29655
10°	29213
15°	28752
20°	27810
25°	26481
30°	24181
35°	19475
40°	13117
45°	9567
50°	8273
55°	7474
60°	7094
65°	6706
70°	6315
75°	5973
80°	5588
85°	5221



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	6.1
10°-20°	142.3	17.1
20°-30°	199.9	24.0
30°-40°	177.9	21.4
40°-50°	99.4	11.9
50°-60°	70.9	8.5
60°-70°	51.6	6.2
70°-80°	29.8	3.6
80°-90°	9.3	1.1
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°	393.1	47.2
0°-40°	571.1	68.6
0°-60°	741.4	89.1
0°-90°	832.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	542	
5°	539	51
15°	507	142
25°	438	200
35°	291	178
45°	123	99
55°	78	71
65°	52	52
75°	28	30
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	542.5
2.5°	540.1
5°	538.9
7.5°	534.2
10°	524.8
12.5°	516.0
15°	506.6
17.5°	493.6
20°	476.7
22.5°	457.8
25°	437.8
27.5°	413.1
30°	382.0
32.5°	342.1
35°	291.0
37.5°	233.3
40°	183.3
42.5°	146.4
45°	123.4
47.5°	108.1
50°	97.0
52.5°	87.0
55°	78.2
57.5°	71.2
60°	64.7
62.5°	58.8
65°	51.7
67.5°	45.9
70°	39.4
72.5°	33.5
75°	28.2
77.5°	22.9
80°	17.7
82.5°	12.9
85°	8.3
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)