

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: P581809

Luminaire Tested: **HC615D010-HM60525935-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581809  
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: HC615D010-HM60525935-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1362.6 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

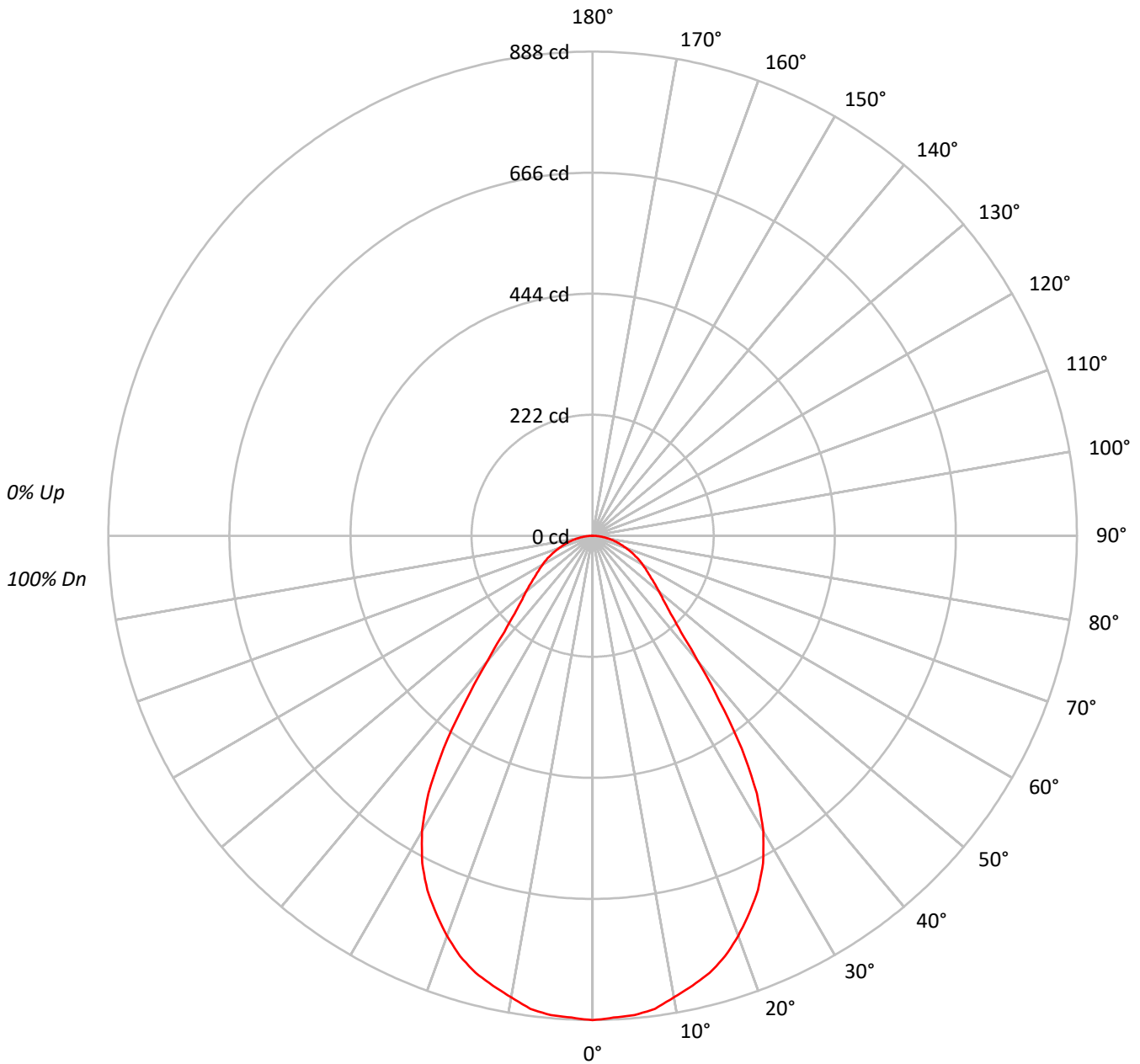
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	48702
5°	48569
10°	47845
15°	47089
20°	45545
25°	43375
30°	39601
35°	31889
40°	21490
45°	15668
50°	13543
55°	12234
60°	11611
65°	10987
70°	10338
75°	9786
80°	9092
85°	8491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	6.1
10°-20°	233.0	17.1
20°-30°	327.4	24.0
30°-40°	291.4	21.4
40°-50°	162.8	12.0
50°-60°	116.0	8.5
60°-70°	84.4	6.2
70°-80°	48.9	3.6
80°-90°	15.2	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°	643.9	47.3
0°-40°	935.3	68.6
0°-60°	1214.2	89.1
0°-90°	1362.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1362.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	888	
5°	883	84
15°	830	233
25°	717	327
35°	476	291
45°	202	163
55°	128	116
65°	85	84
75°	46	49
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	888.4
2.5°	884.5
5°	882.6
7.5°	875.0
10°	859.5
12.5°	845.1
15°	829.7
17.5°	808.5
20°	780.7
22.5°	749.8
25°	717.1
27.5°	676.7
30°	625.6
32.5°	560.2
35°	476.5
37.5°	382.2
40°	300.3
42.5°	239.7
45°	202.1
47.5°	177.1
50°	158.8
52.5°	142.4
55°	128.0
57.5°	116.5
60°	105.9
62.5°	96.2
65°	84.7
67.5°	75.0
70°	64.5
72.5°	54.8
75°	46.2
77.5°	37.6
80°	28.8
82.5°	21.2
85°	13.5
87.5°	6.7
90°	0.0



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— 0°-180°







(END OF REPORT)