

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: P582133

Luminaire Tested: **HC630D010-HM63040827-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582133  
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: HC630D010-HM63040827-61PSMDW  
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: 2898.9 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

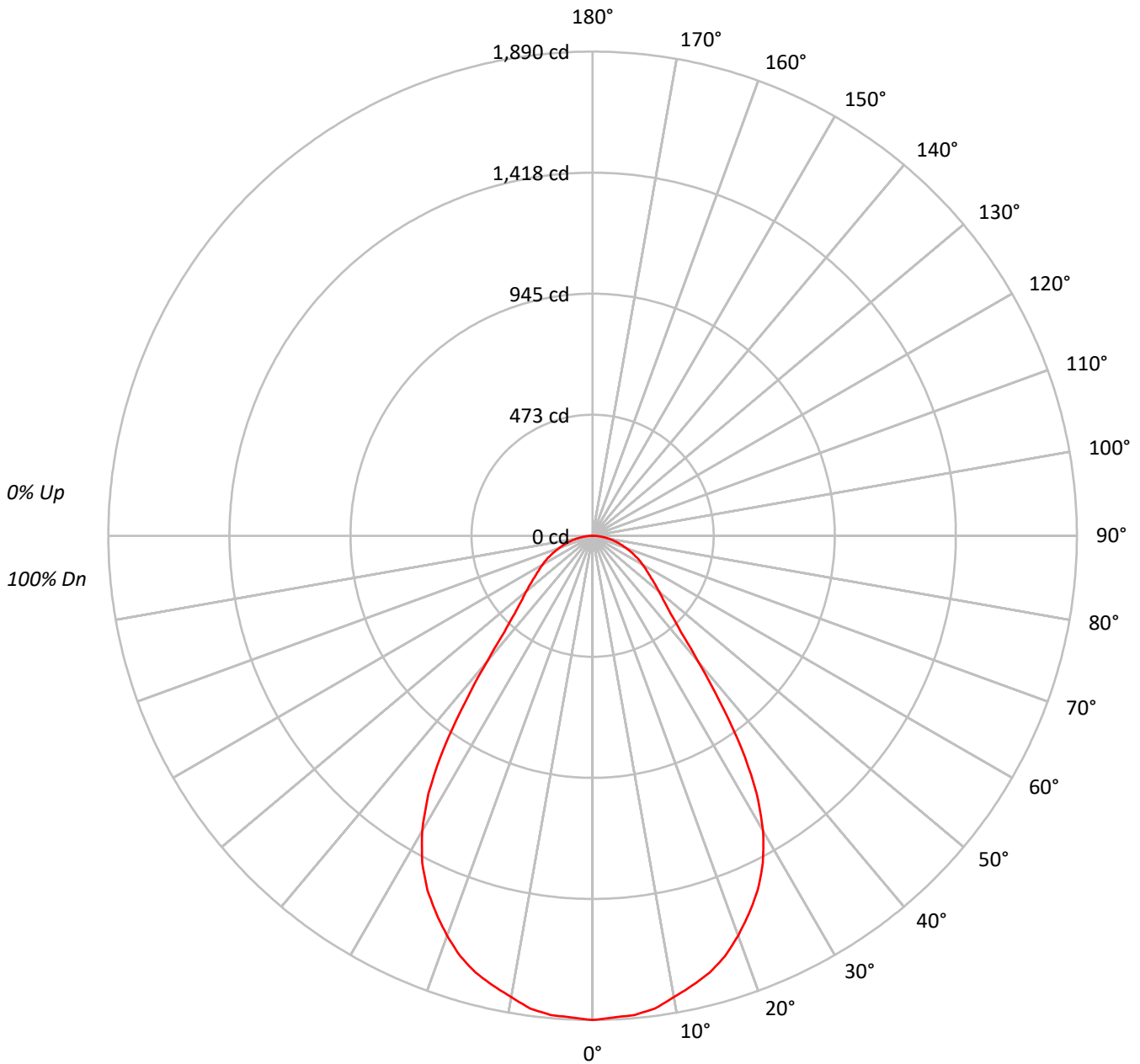
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	103610
5°	103329
10°	101791
15°	100177
20°	96883
25°	92273
30°	84253
35°	67833
40°	45714
45°	33345
50°	28818
55°	26035
60°	24691
65°	23388
70°	21991
75°	20821
80°	19415
85°	18052



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	6.1
10°-20°	495.7	17.1
20°-30°	696.4	24.0
30°-40°	619.9	21.4
40°-50°	346.4	12.0
50°-60°	246.8	8.5
60°-70°	179.6	6.2
70°-80°	104.0	3.6
80°-90°	32.4	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°	1369.8	47.3
0°-40°	1989.7	68.6
0°-60°	2583.0	89.1
0°-90°	2898.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1890	
5°	1878	178
15°	1765	496
25°	1526	696
35°	1014	620
45°	430	346
55°	272	247
65°	180	180
75°	98	104
85°	29	32
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1890.0
2.5°	1881.8
5°	1877.7
7.5°	1861.4
10°	1828.6
12.5°	1797.9
15°	1765.1
17.5°	1720.0
20°	1660.7
22.5°	1595.2
25°	1525.5
27.5°	1439.5
30°	1331.0
32.5°	1191.7
35°	1013.6
37.5°	812.9
40°	638.8
42.5°	509.8
45°	430.1
47.5°	376.8
50°	337.9
52.5°	303.1
55°	272.4
57.5°	247.8
60°	225.2
62.5°	204.7
65°	180.3
67.5°	159.7
70°	137.2
72.5°	116.8
75°	98.3
77.5°	79.9
80°	61.5
82.5°	45.1
85°	28.7
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)