

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: P583069

Luminaire Tested: **HC655D010-HM64560927-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583069  
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: HC655D010-HM64560927-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3982.2 lumens  
Efficiency: N/A  
Efficacy: 76.6 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

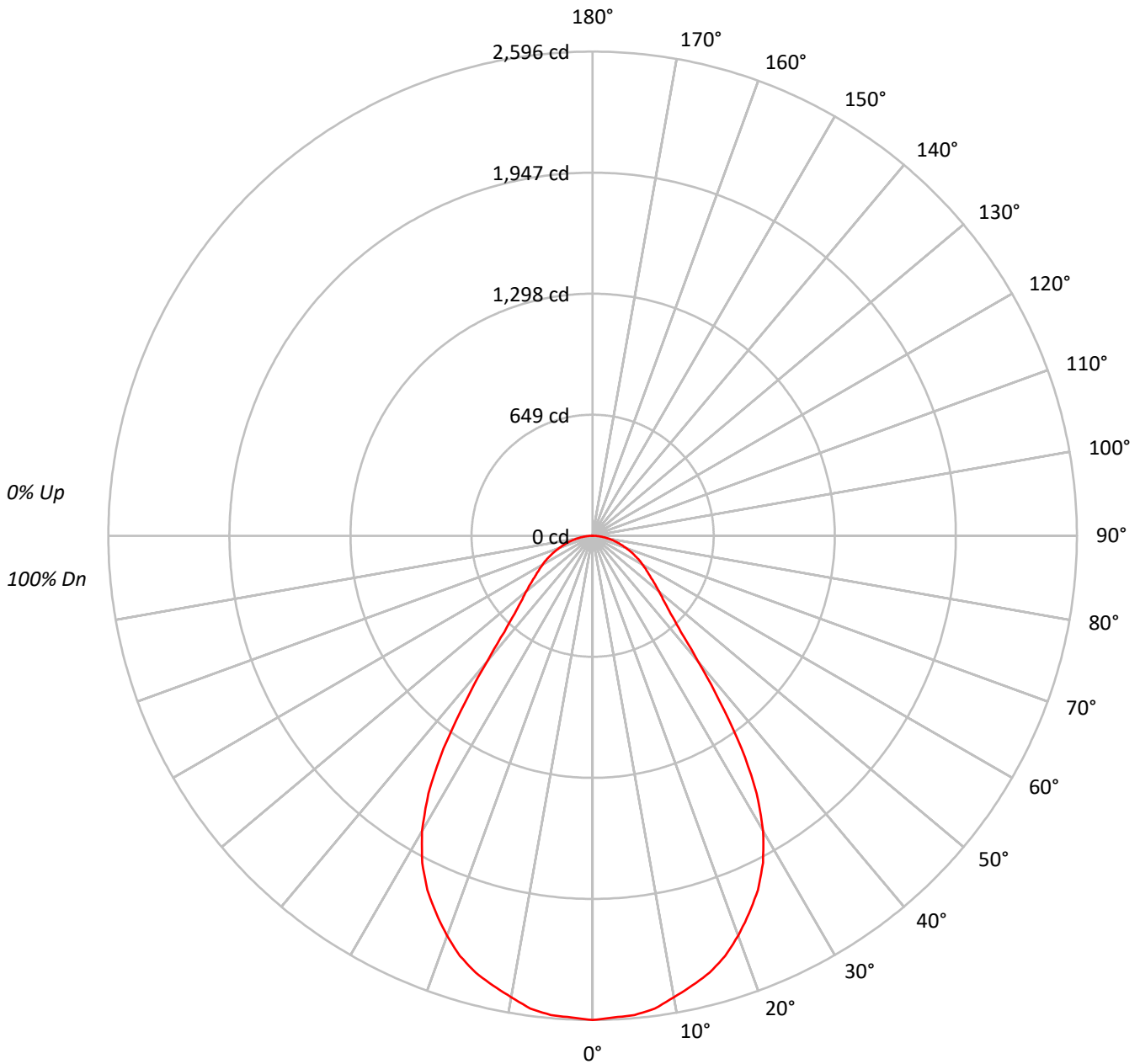
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	142330
5°	141949
10°	139833
15°	137617
20°	133087
25°	126763
30°	115739
35°	93184
40°	62811
45°	45795
50°	39581
55°	35765
60°	33934
65°	32118
70°	30213
75°	28594
80°	26613
85°	24782



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.1	6.1
10°-20°	680.9	17.1
20°-30°	956.7	24.0
30°-40°	851.6	21.4
40°-50°	475.9	12.0
50°-60°	339.1	8.5
60°-70°	246.7	6.2
70°-80°	142.8	3.6
80°-90°	44.4	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°	1881.7	47.3
0°-40°	2733.4	68.6
0°-60°	3548.3	89.1
0°-90°	3982.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2596	
5°	2580	244
15°	2425	681
25°	2096	957
35°	1392	852
45°	591	476
55°	374	339
65°	248	247
75°	135	143
85°	39	44
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2596.3
2.5°	2585.1
5°	2579.5
7.5°	2557.1
10°	2512.0
12.5°	2469.7
15°	2424.8
17.5°	2362.9
20°	2281.3
22.5°	2191.3
25°	2095.7
27.5°	1977.5
30°	1828.4
32.5°	1637.2
35°	1392.4
37.5°	1116.8
40°	877.7
42.5°	700.5
45°	590.7
47.5°	517.6
50°	464.1
52.5°	416.3
55°	374.2
57.5°	340.3
60°	309.5
62.5°	281.3
65°	247.6
67.5°	219.4
70°	188.5
72.5°	160.3
75°	135.0
77.5°	109.7
80°	84.3
82.5°	61.9
85°	39.4
87.5°	19.6
90°	0.0



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— 0°-180°







(END OF REPORT)