

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: P583194

Luminaire Tested: **HC660D010-HM64560840-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC660D010-HM64560840-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5639.4 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

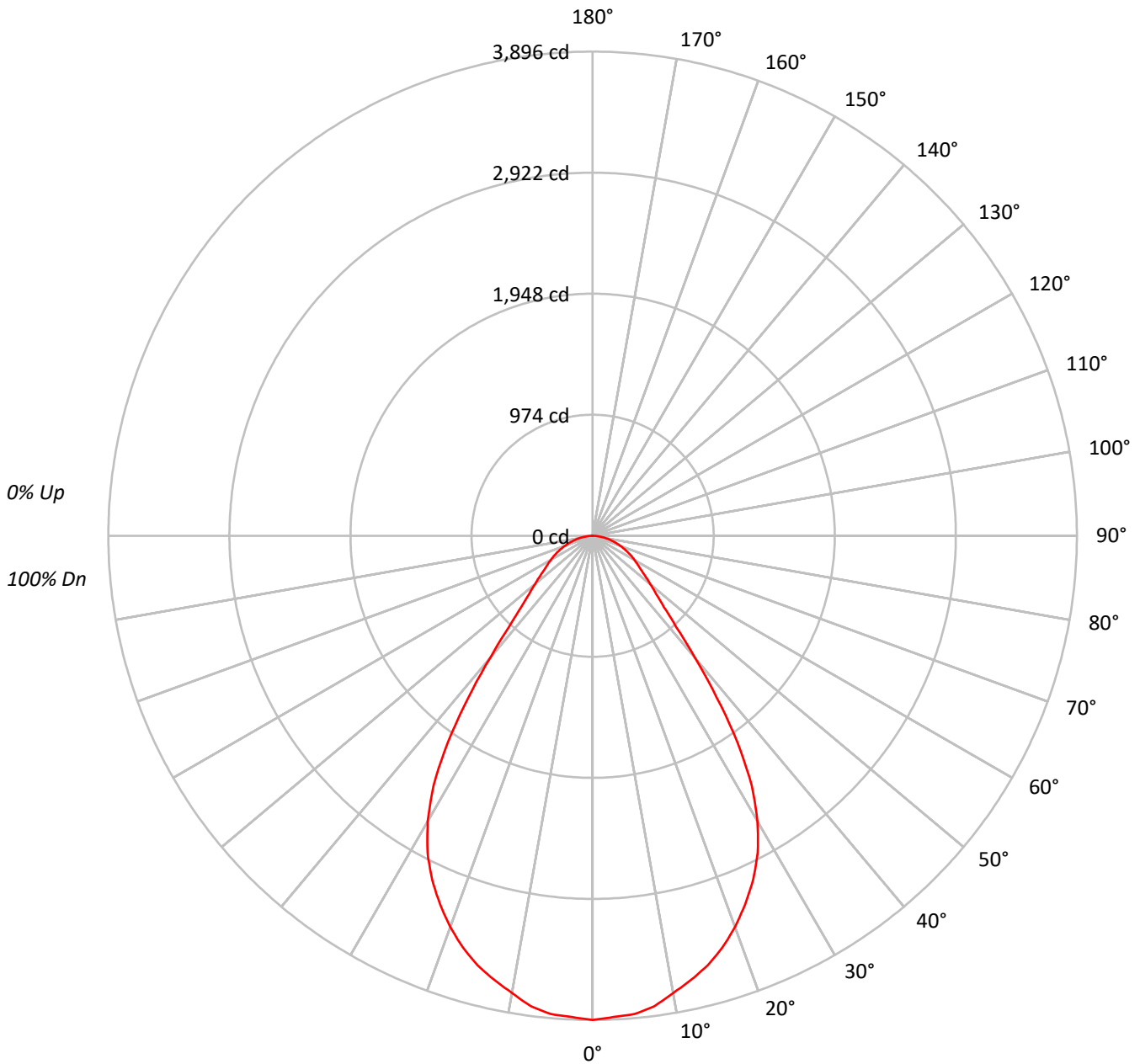
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

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

	0°
0°	213601
5°	212590
10°	207901
15°	203020
20°	195393
25°	184789
30°	167925
35°	135927
40°	91657
45°	62991
50°	51615
55°	45160
60°	42716
65°	40329
70°	37859
75°	35986
80°	32706
85°	28682



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.7	6.5
10°-20°	1004.6	17.8
20°-30°	1395.7	24.7
30°-40°	1242.6	22.0
40°-50°	659.6	11.7
50°-60°	431.4	7.6
60°-70°	309.1	5.5
70°-80°	179.2	3.2
80°-90°	52.4	0.9
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°	2764.9	49.0
0°-40°	4007.6	71.1
0°-60°	5098.6	90.4
0°-90°	5639.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5639.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3896	
5°	3863	365
15°	3577	1005
25°	3055	1396
35°	2031	1243
45°	812	660
55°	472	431
65°	311	309
75°	170	179
85°	46	52
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3896.4
2.5°	3875.6
5°	3863.2
7.5°	3817.6
10°	3734.8
12.5°	3660.1
15°	3577.2
17.5°	3473.6
20°	3349.3
22.5°	3208.3
25°	3055.0
27.5°	2876.7
30°	2652.8
32.5°	2383.5
35°	2031.1
37.5°	1641.4
40°	1280.8
42.5°	994.8
45°	812.5
47.5°	692.2
50°	605.2
52.5°	534.8
55°	472.5
57.5°	427.0
60°	389.6
62.5°	352.3
65°	310.9
67.5°	273.6
70°	236.2
72.5°	203.1
75°	169.9
77.5°	136.7
80°	103.6
82.5°	74.6
85°	45.6
87.5°	20.7
90°	0.0



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— 0°-180°







(END OF REPORT)