

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: P583191

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC660D010-HM64560840-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5722.4 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

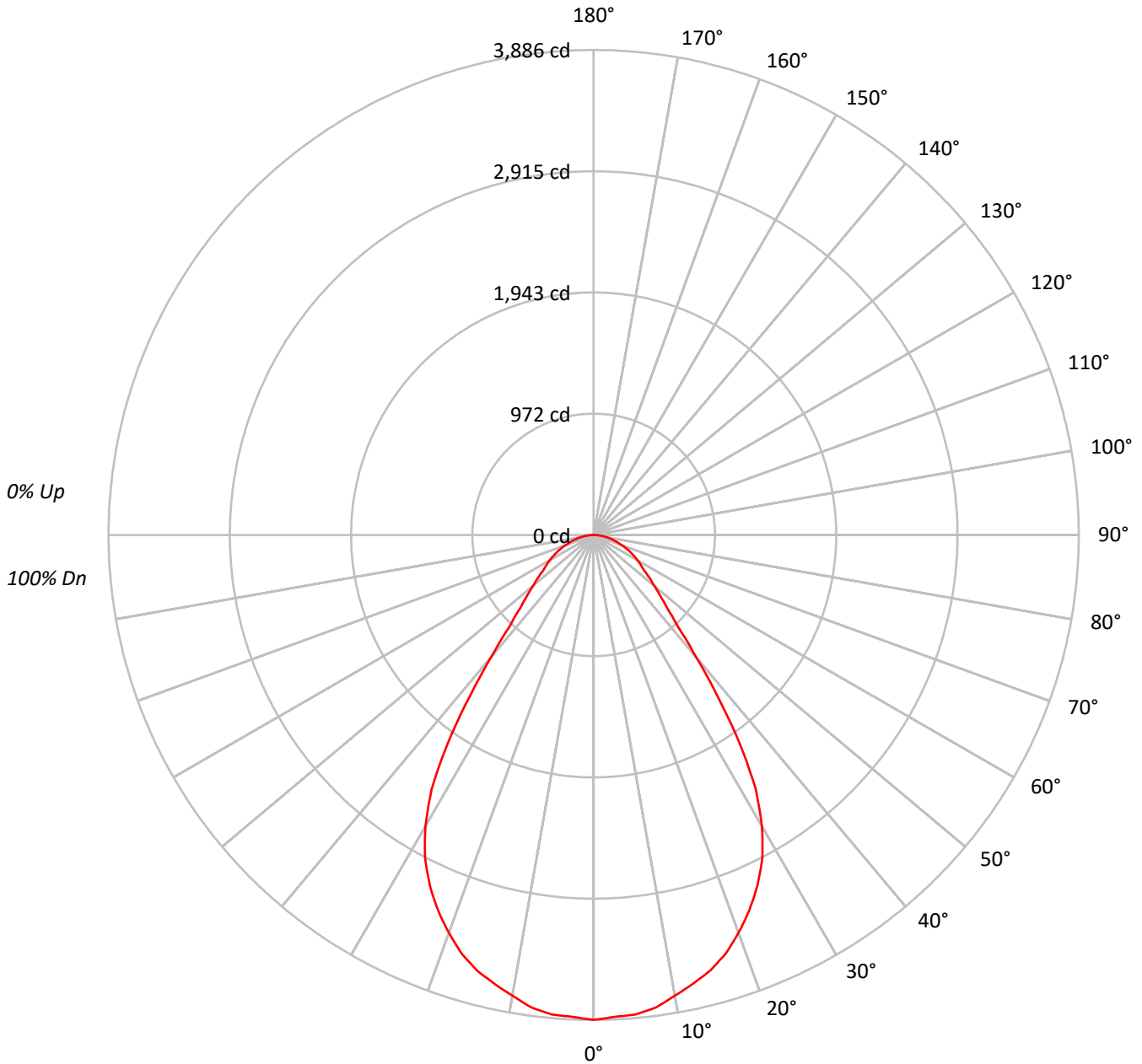
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	213020
5°	212238
10°	208697
15°	205013
20°	197936
25°	187686
30°	170716
35°	136403
40°	91013
45°	64883
50°	54054
55°	47119
60°	44514
65°	41924
70°	38516
75°	35986
80°	32706
85°	28682



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.8	6.4
10°-20°	1014.3	17.7
20°-30°	1417.4	24.8
30°-40°	1248.6	21.8
40°-50°	674.6	11.8
50°-60°	451.0	7.9
60°-70°	319.7	5.6
70°-80°	179.7	3.1
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°	2796.4	48.9
0°-40°	4045.0	70.7
0°-60°	5170.6	90.4
0°-90°	5722.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5722.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3886	
5°	3857	365
15°	3612	1014
25°	3103	1417
35°	2038	1249
45°	837	675
55°	493	451
65°	323	320
75°	170	180
85°	46	52
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3885.8
2.5°	3865.1
5°	3856.8
7.5°	3819.5
10°	3749.1
12.5°	3682.8
15°	3612.3
17.5°	3517.1
20°	3392.9
22.5°	3256.1
25°	3102.9
27.5°	2924.8
30°	2696.9
32.5°	2415.2
35°	2038.2
37.5°	1628.0
40°	1271.8
42.5°	1002.5
45°	836.9
47.5°	725.0
50°	633.8
52.5°	559.3
55°	493.0
57.5°	447.4
60°	406.0
62.5°	364.5
65°	323.2
67.5°	281.7
70°	240.3
72.5°	202.9
75°	169.9
77.5°	136.7
80°	103.6
82.5°	74.5
85°	45.6
87.5°	20.7
90°	0.0



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— 0°-180°







(END OF REPORT)