

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: P583218

Luminaire Tested: **HC660D010-HM64560927-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC660D010-HM64560927-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4336.6 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

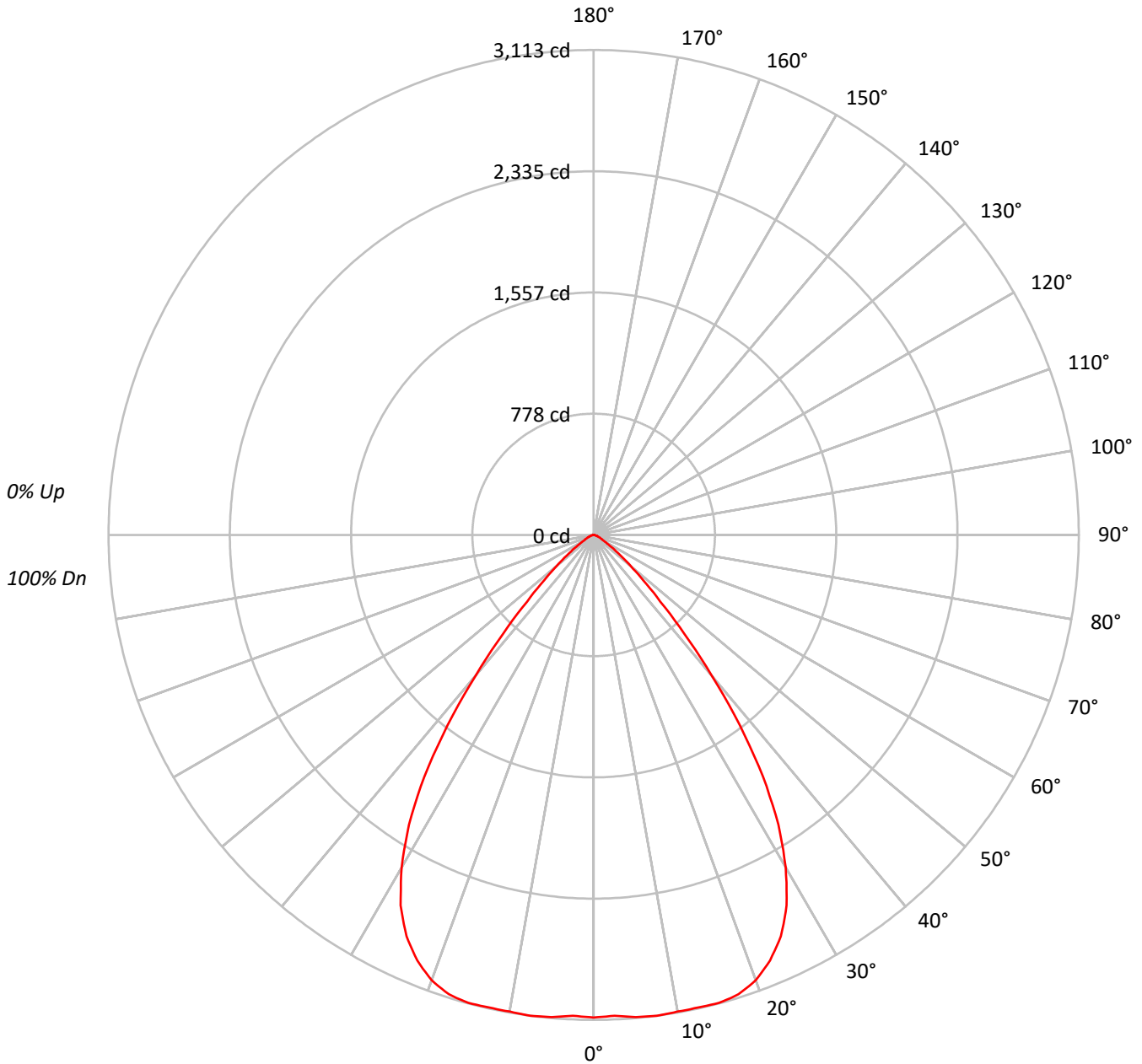
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

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

	0°
0°	169838
5°	170971
10°	172948
15°	176499
20°	177483
25°	171953
30°	155999
35°	126839
40°	84186
45°	46858
50°	26276
55°	14585
60°	8037
65°	6084
70°	4231
75°	3092
80°	1863
85°	1824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.5	6.8
10°-20°	876.9	20.2
20°-30°	1292.4	29.8
30°-40°	1156.0	26.7
40°-50°	501.5	11.6
50°-60°	147.4	3.4
60°-70°	47.0	1.1
70°-80°	16.6	0.4
80°-90°	2.4	0.1
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°	2465.8	56.9
0°-40°	3621.8	83.5
0°-60°	4270.6	98.5
0°-90°	4336.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4336.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3098	
5°	3107	297
15°	3110	877
25°	2843	1292
35°	1895	1156
45°	604	502
55°	153	147
65°	47	47
75°	15	17
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3098.1
2.5°	3089.3
5°	3106.9
7.5°	3112.7
10°	3106.9
12.5°	3106.9
15°	3109.9
17.5°	3092.2
20°	3042.3
22.5°	2957.3
25°	2842.8
27.5°	2681.5
30°	2464.4
32.5°	2206.2
35°	1895.3
37.5°	1540.3
40°	1176.4
42.5°	859.6
45°	604.4
47.5°	431.3
50°	308.1
52.5°	220.0
55°	152.6
57.5°	102.7
60°	73.3
62.5°	58.7
65°	46.9
67.5°	35.2
70°	26.4
72.5°	20.5
75°	14.6
77.5°	11.8
80°	5.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)