

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: P583193

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC660D010-HM64560840-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6016.5 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

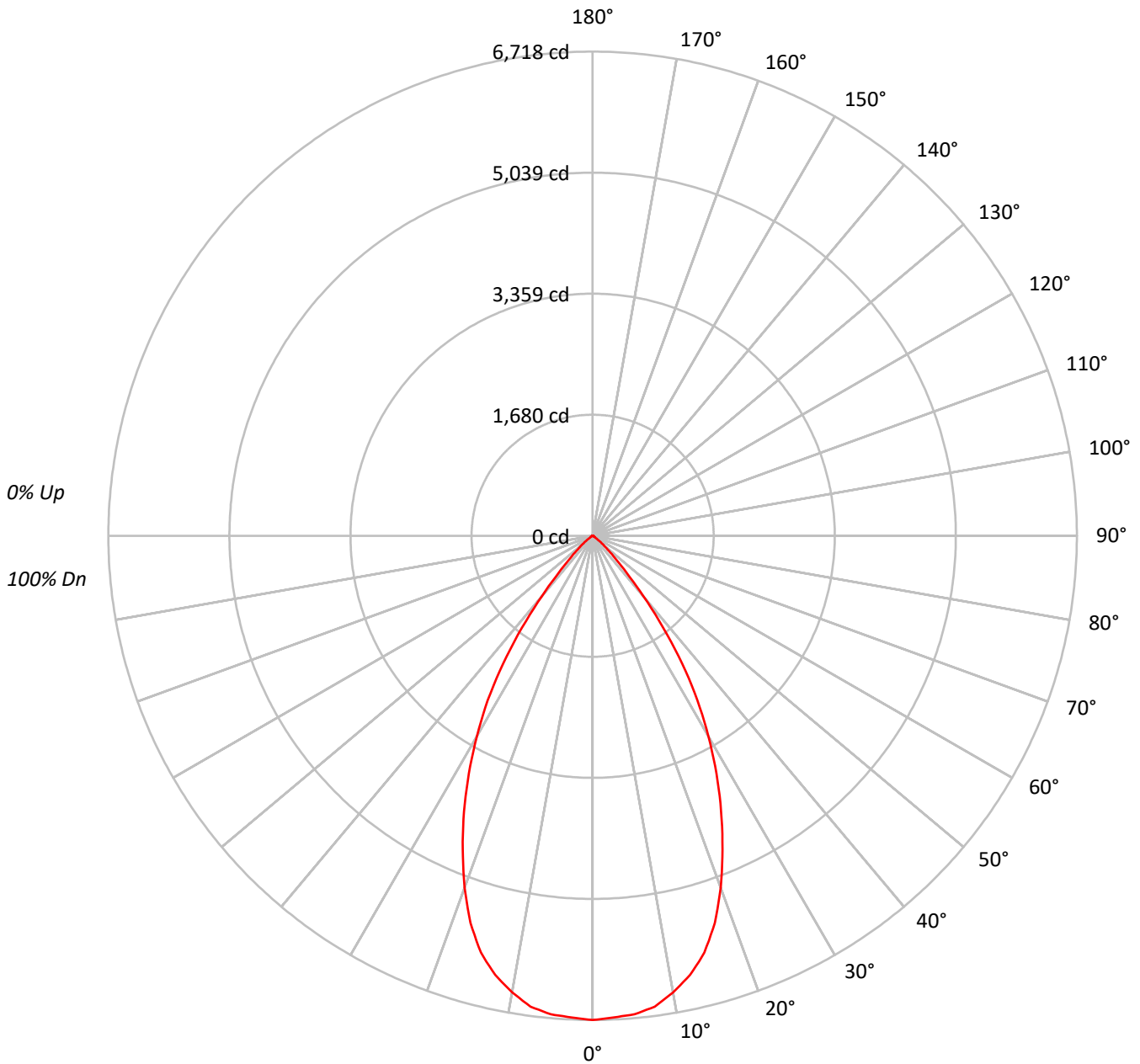
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51			

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

	0°
0°	368304
5°	366745
10°	358065
15°	339894
20°	302963
25°	255208
30°	203329
35°	145069
40°	78003
45°	33422
50°	15198
55°	5543
60°	2719
65°	2140
70°	1988
75°	868
80°	1294
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.1	10.5
10°-20°	1660.1	27.6
20°-30°	1922.7	32.0
30°-40°	1329.5	22.1
40°-50°	383.9	6.4
50°-60°	66.1	1.1
60°-70°	16.8	0.3
70°-80°	6.5	0.1
80°-90°	1.7	0.0
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°	4211.9	70.0
0°-40°	5541.5	92.1
0°-60°	5991.5	99.6
0°-90°	6016.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6016.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6718	
5°	6664	629
15°	5989	1660
25°	4219	1923
35°	2168	1330
45°	431	384
55°	58	66
65°	16	17
75°	4	7
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6718.4
2.5°	6689.4
5°	6664.5
7.5°	6589.9
10°	6432.4
12.5°	6241.8
15°	5988.9
17.5°	5632.5
20°	5193.2
22.5°	4708.3
25°	4219.2
27.5°	3717.7
30°	3212.1
32.5°	2706.4
35°	2167.7
37.5°	1608.2
40°	1090.0
42.5°	688.0
45°	431.1
47.5°	277.7
50°	178.2
52.5°	107.8
55°	58.0
57.5°	33.2
60°	24.8
62.5°	20.7
65°	16.5
67.5°	12.4
70°	12.4
72.5°	8.3
75°	4.1
77.5°	4.1
80°	4.1
82.5°	4.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)