

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: P582720

Luminaire Tested: **HC6R50D010-HM64560827-62RMDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC6R50D010-HM64560827-62RMDC  
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5088.9 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 0.96  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

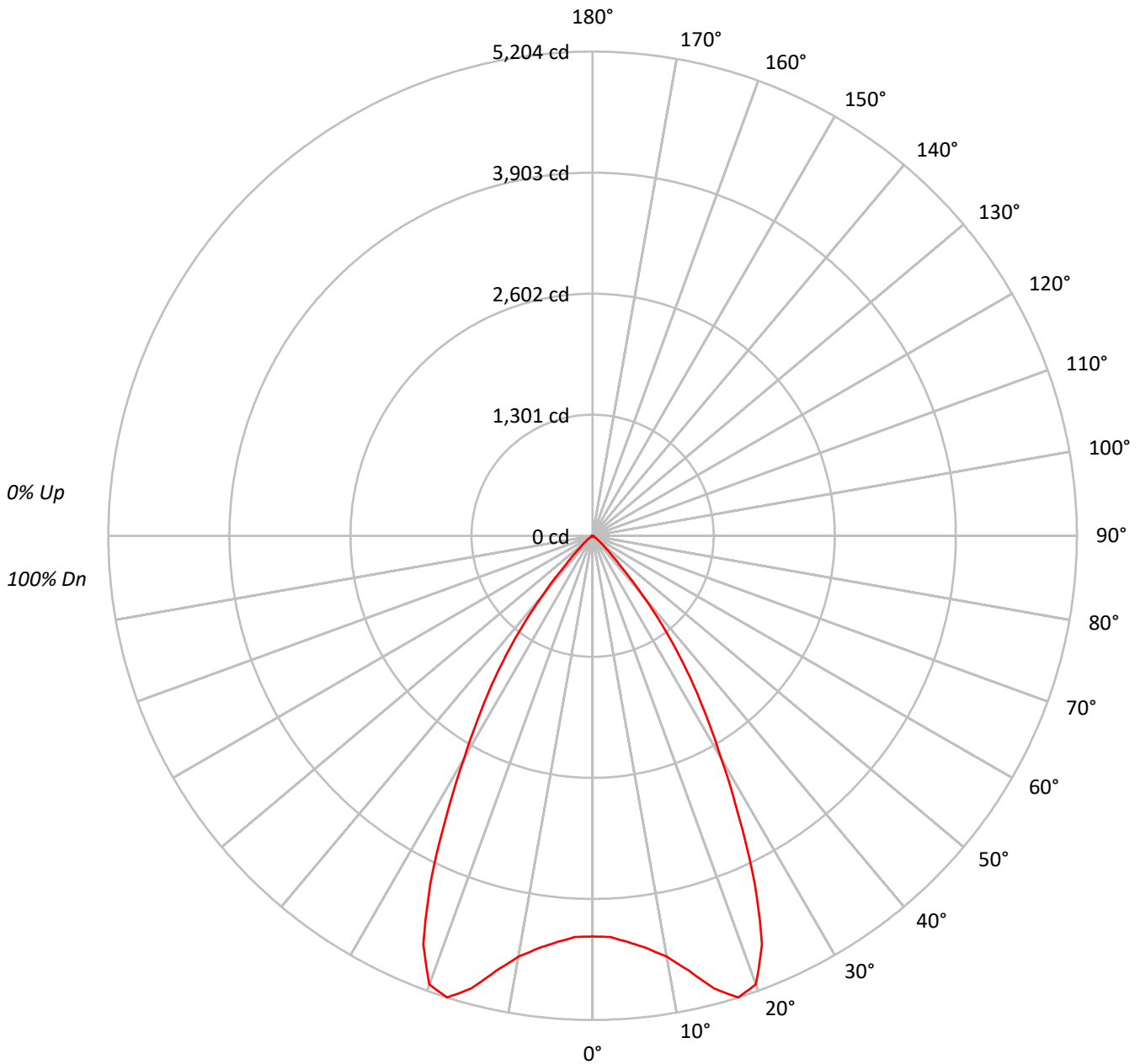
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	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	89	83	79	86	82	79	84	81	78	83	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	65	62	61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	60	55	52	60	55	52	59	55	51	50			

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

	0°
0°	236045
5°	241211
10°	255690
15°	285802
20°	299241
25°	249504
30°	174622
35°	117597
40°	60563
45°	21033
50°	9364
55°	3097
60°	1414
65°	1258
70°	1042
75°	678
80°	1010
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.9	8.3
10°-20°	1418.9	27.9
20°-30°	1844.0	36.2
30°-40°	1089.2	21.4
40°-50°	259.8	5.1
50°-60°	38.3	0.8
60°-70°	9.6	0.2
70°-80°	3.8	0.1
80°-90°	0.4	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°	3687.7	72.5
0°-40°	4777.0	93.9
0°-60°	5075.1	99.7
0°-90°	5088.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5088.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4306	
5°	4383	425
15°	5036	1419
25°	4125	1844
35°	1757	1089
45°	271	260
55°	32	38
65°	10	10
75°	3	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4305.8
2.5°	4315.5
5°	4383.3
7.5°	4470.6
10°	4593.3
12.5°	4787.1
15°	5035.8
17.5°	5203.7
20°	5129.4
22.5°	4754.8
25°	4124.9
27.5°	3404.6
30°	2758.6
32.5°	2232.1
35°	1757.2
37.5°	1292.0
40°	846.3
42.5°	461.9
45°	271.3
47.5°	167.9
50°	109.8
52.5°	64.6
55°	32.4
57.5°	16.2
60°	12.9
62.5°	12.9
65°	9.7
67.5°	6.5
70°	6.5
72.5°	3.2
75°	3.2
77.5°	3.2
80°	3.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)