

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: P582648

Luminaire Tested: **HC6R45D010-HM64560927-62RMDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582648  
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: HC6R45D010-HM64560927-62RMDC  
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3998.5 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

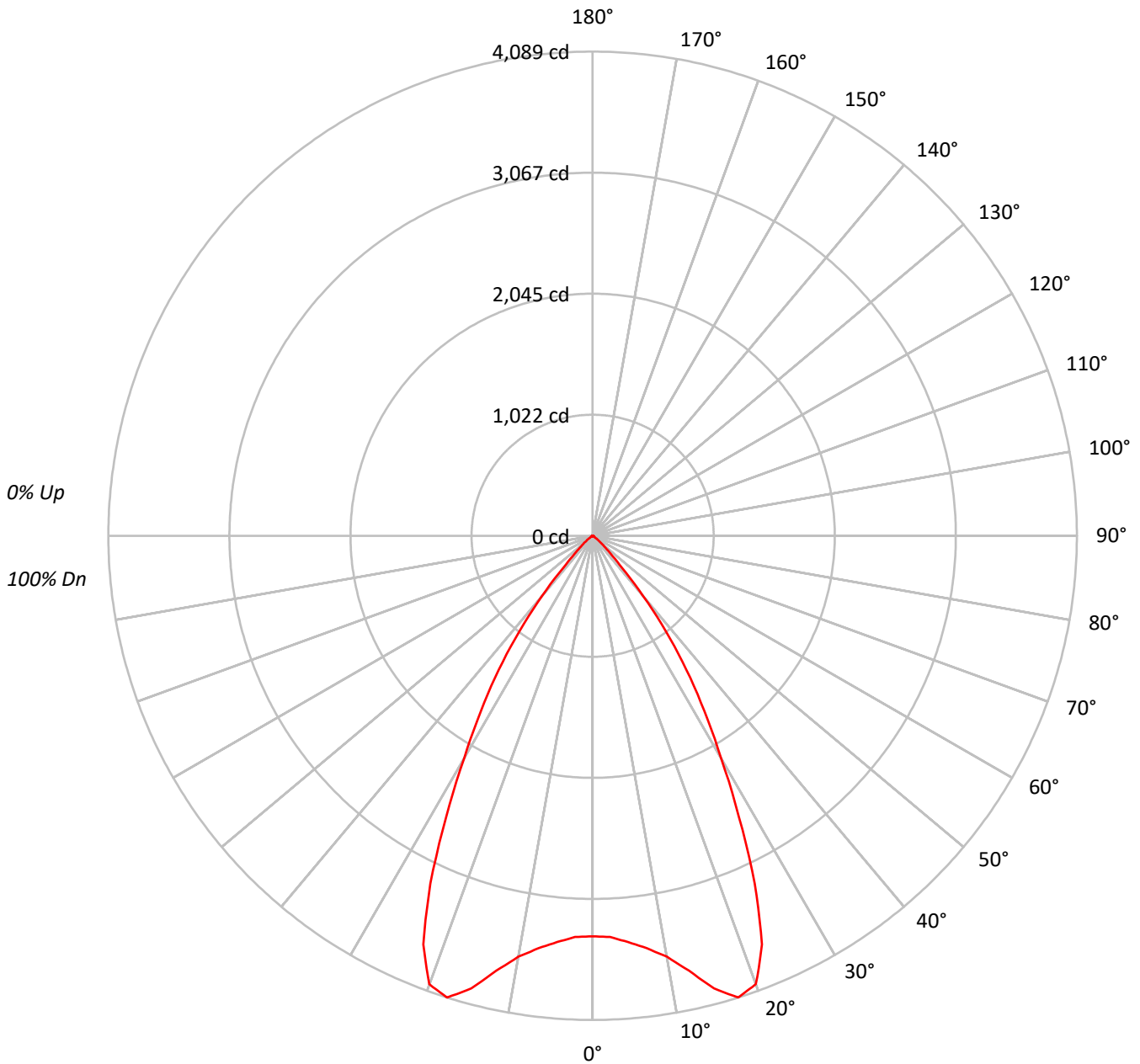
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582648

CATALOG NUMBER: HC6R45D010-HM64560927-62RMDC

### Luminous Intensity Polar Plot





TEST NUMBER: P582648

CATALOG NUMBER: HC6R45D010-HM64560927-62RMDC

**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°	185457
5°	189516
10°	200898
15°	224553
20°	235115
25°	196040
30°	137198
35°	92394
40°	47589
45°	16521
50°	7360
55°	2418
60°	1118
65°	986
70°	801
75°	551
80°	821
85°	0



TEST NUMBER: P582648

CATALOG NUMBER: HC6R45D010-HM64560927-62RMDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.8	8.3
10°-20°	1114.8	27.9
20°-30°	1448.8	36.2
30°-40°	855.8	21.4
40°-50°	204.2	5.1
50°-60°	30.1	0.8
60°-70°	7.5	0.2
70°-80°	3.1	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°	2897.5	72.5
0°-40°	3753.3	93.9
0°-60°	3987.5	99.7
0°-90°	3998.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3998.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3383	
5°	3444	334
15°	3957	1115
25°	3241	1449
35°	1381	856
45°	213	204
55°	25	30
65°	8	7
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P582648

CATALOG NUMBER: HC6R45D010-HM64560927-62RMDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3383.0
2.5°	3390.7
5°	3443.9
7.5°	3512.5
10°	3609.0
12.5°	3761.2
15°	3956.6
17.5°	4088.6
20°	4030.2
22.5°	3735.9
25°	3241.0
27.5°	2675.0
30°	2167.4
32.5°	1753.8
35°	1380.6
37.5°	1015.2
40°	665.0
42.5°	362.9
45°	213.1
47.5°	132.0
50°	86.3
52.5°	50.8
55°	25.3
57.5°	12.7
60°	10.2
62.5°	10.2
65°	7.6
67.5°	5.0
70°	5.0
72.5°	2.6
75°	2.6
77.5°	2.6
80°	2.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)