

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: P592985

Luminaire Tested: **HC6R05D010-HM60525850-62RMDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592985  
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: HC6R05D010-HM60525850-62RMDC  
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 789.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 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

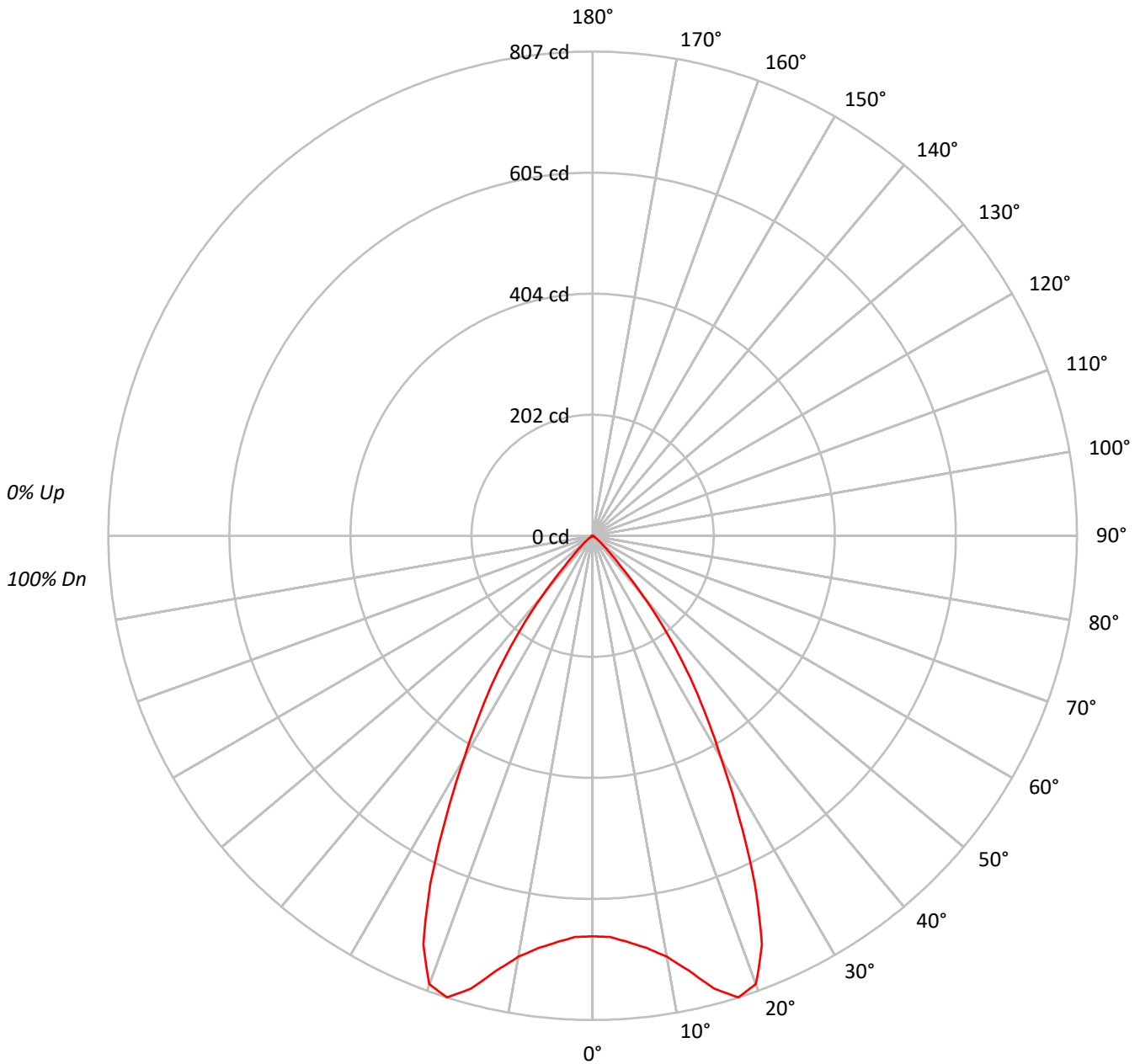
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P592985

CATALOG NUMBER: HC6R05D010-HM60525850-62RMDC

### Luminous Intensity Polar Plot





TEST NUMBER: P592985

CATALOG NUMBER: HC6R05D010-HM60525850-62RMDC

**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°	36598
5°	37404
10°	39645
15°	44314
20°	46402
25°	38688
30°	27074
35°	18230
40°	9389
45°	3256
50°	1458
55°	478
60°	219
65°	195
70°	160
75°	106
80°	158
85°	0



TEST NUMBER: P592985

CATALOG NUMBER: HC6R05D010-HM60525850-62RMDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	8.3
10°-20°	220.0	27.9
20°-30°	285.9	36.2
30°-40°	168.9	21.4
40°-50°	40.3	5.1
50°-60°	6.0	0.8
60°-70°	1.5	0.2
70°-80°	0.6	0.1
80°-90°	0.1	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°	571.8	72.5
0°-40°	740.7	93.9
0°-60°	786.9	99.7
0°-90°	789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	789.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	668	
5°	680	66
15°	781	220
25°	640	286
35°	272	169
45°	42	40
55°	5	6
65°	2	1
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P592985

CATALOG NUMBER: HC6R05D010-HM60525850-62RMDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	667.6
2.5°	669.2
5°	679.7
7.5°	693.1
10°	712.2
12.5°	742.3
15°	780.8
17.5°	806.8
20°	795.4
22.5°	737.2
25°	639.6
27.5°	527.9
30°	427.7
32.5°	346.1
35°	272.4
37.5°	200.3
40°	131.2
42.5°	71.6
45°	42.0
47.5°	26.0
50°	17.1
52.5°	10.1
55°	5.0
57.5°	2.5
60°	2.0
62.5°	2.0
65°	1.5
67.5°	1.0
70°	1.0
72.5°	0.5
75°	0.5
77.5°	0.5
80°	0.5
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)