

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: P582893

Luminaire Tested: **HC605D010-HM60525835-61WDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525835-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 782.4 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

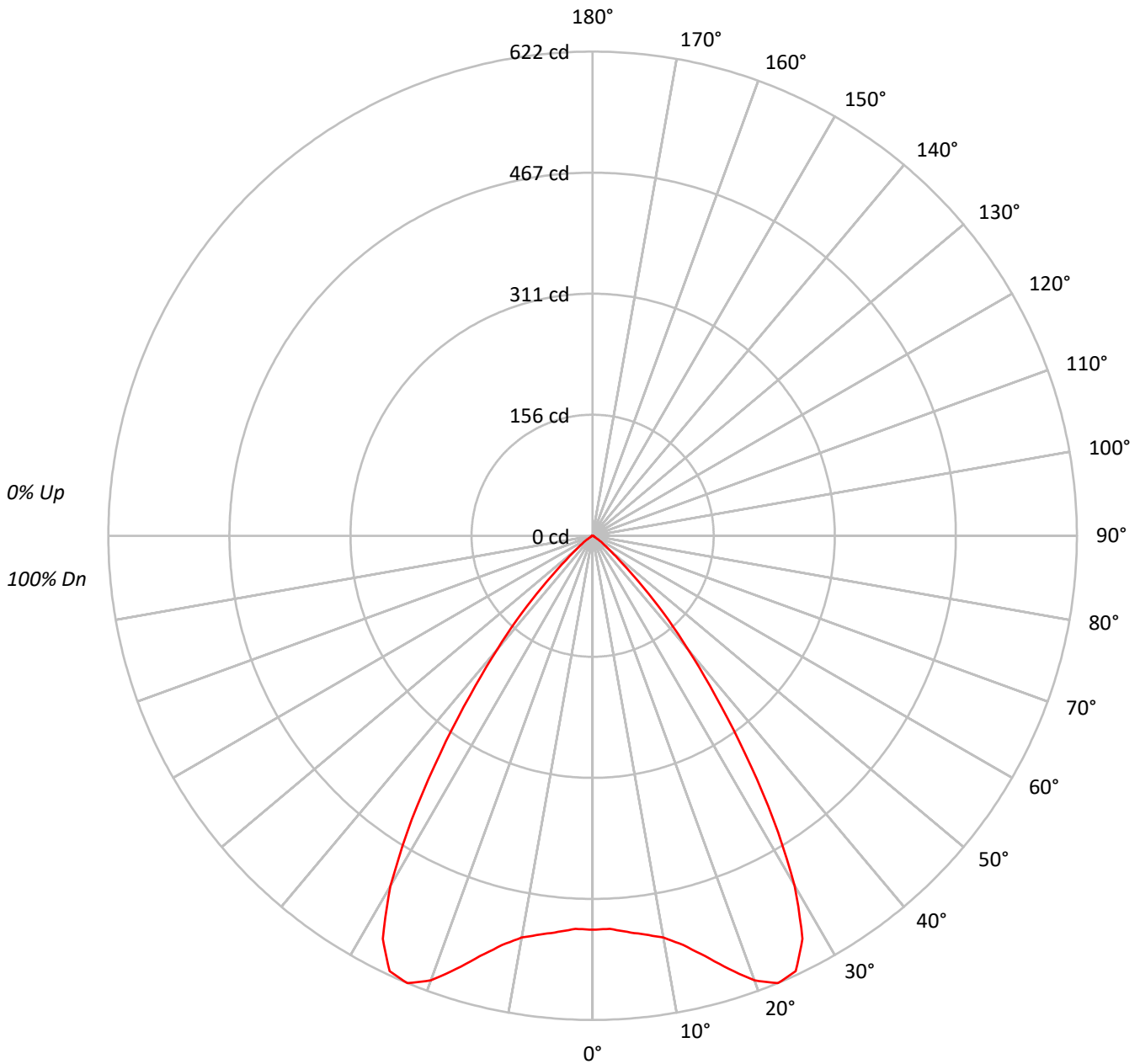
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582893

CATALOG NUMBER: HC605D010-HM60525835-61WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P582893

CATALOG NUMBER: HC605D010-HM60525835-61WDC

**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	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56			
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52			
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48			
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45			

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

	0°
0°	27739
5°	28115
10°	29169
15°	31720
20°	35458
25°	37327
30°	32859
35°	22794
40°	13611
45°	6466
50°	2439
55°	1013
60°	318
65°	246
70°	160
75°	106
80°	158
85°	0



TEST NUMBER: P582893

CATALOG NUMBER: HC605D010-HM60525835-61WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	6.3
10°-20°	160.5	20.5
20°-30°	275.0	35.1
30°-40°	213.5	27.3
40°-50°	70.6	9.0
50°-60°	10.8	1.4
60°-70°	1.9	0.2
70°-80°	0.7	0.1
80°-90°	0.2	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°	484.6	61.9
0°-40°	698.2	89.2
0°-60°	779.6	99.6
0°-90°	782.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	782.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	506	
5°	511	49
15°	559	160
25°	617	275
35°	341	214
45°	83	71
55°	11	11
65°	2	2
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P582893

CATALOG NUMBER: HC605D010-HM60525835-61WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	506.0
2.5°	505.4
5°	510.9
7.5°	516.6
10°	524.0
12.5°	538.4
15°	558.9
17.5°	583.6
20°	607.8
22.5°	622.0
25°	617.1
27.5°	583.6
30°	519.1
32.5°	432.2
35°	340.6
37.5°	258.5
40°	190.2
42.5°	134.4
45°	83.4
47.5°	46.6
50°	28.6
52.5°	17.5
55°	10.6
57.5°	5.3
60°	2.9
62.5°	2.4
65°	1.9
67.5°	1.5
70°	1.0
72.5°	1.0
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)