

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: P582855

Luminaire Tested: **HC605D010-HM60525827-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525827-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 663.6 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

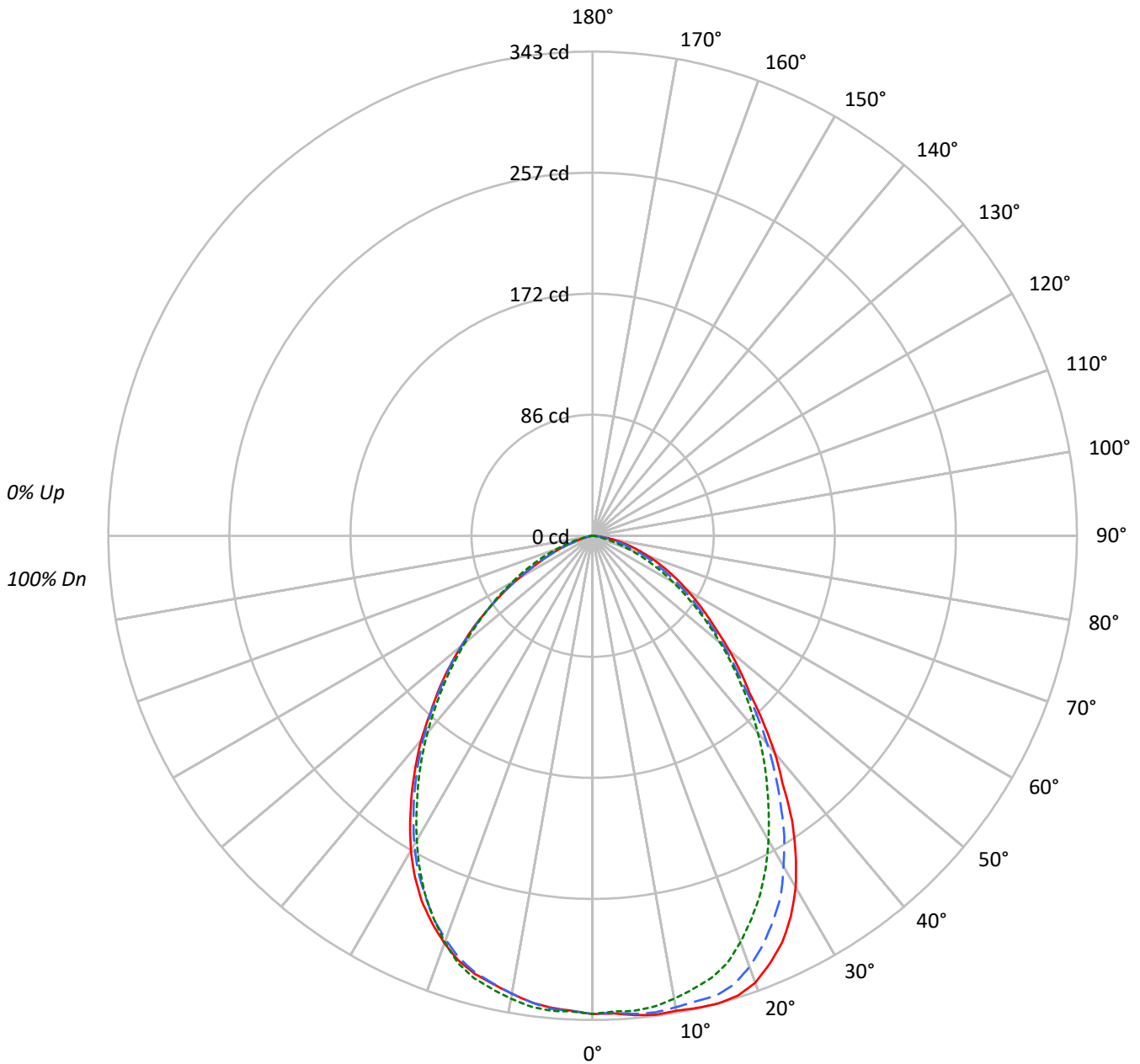
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582855

CATALOG NUMBER: HC605D010-HM60525827-61RWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P582855

CATALOG NUMBER: HC605D010-HM60525827-61RWWH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

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

	0°	90°	180°
0°	18568	18568	18568
5°	18760	18589	18468
10°	19021	18531	18336
15°	19472	18411	18241
20°	19654	17863	17916
25°	19223	16967	17293
30°	18205	15768	16294
35°	16483	14409	14944
40°	14355	13017	13497
45°	12180	11528	11939
50°	10780	10072	10328
55°	9500	8611	8564
60°	8508	7247	6666
65°	7588	5824	4774
70°	6684	4199	2981
75°	5655	2542	1694
80°	4357	1105	726
85°	2516	314	314



TEST NUMBER: P582855

CATALOG NUMBER: HC605D010-HM60525827-61RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.1	4.8
10°-20°	92.4	13.9
20°-30°	133.6	20.1
30°-40°	140.5	21.2
40°-50°	118.1	17.8
50°-60°	82.9	12.5
60°-70°	45.6	6.9
70°-80°	16.2	2.4
80°-90°	2.2	0.3
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°	258.1	38.9
0°-40°	398.6	60.1
0°-60°	599.7	90.4
0°-90°	663.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	663.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	339	339	339	339	339	
5°	341	340	338	336	336	33
15°	343	337	324	320	321	97
25°	318	302	280	281	286	145
35°	246	232	215	220	223	153
45°	157	153	149	152	154	123
55°	99	94	90	90	90	89
65°	58	52	45	37	37	58
75°	27	21	12	8	8	29
85°	4	2	0	0	0	6
90°	0	0	0	0	0	



TEST NUMBER: P582855

CATALOG NUMBER: HC605D010-HM60525827-61RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	338.7	338.7	338.7	338.7	338.7	338.7	338.7	338.7	338.7
2.5°	338.7	338.7	338.2	338.2	337.3	337.3	336.9	336.9	336.9
5°	340.9	340.9	340.0	338.7	337.8	336.4	336.4	335.9	335.6
7.5°	342.2	341.7	340.5	338.7	336.4	334.3	333.3	333.8	333.3
10°	341.7	340.9	339.1	335.6	332.9	329.7	329.4	328.9	329.4
12.5°	342.6	341.4	337.8	333.3	328.9	325.3	324.9	324.9	325.3
15°	343.1	341.7	337.3	330.6	324.4	320.9	320.5	320.9	321.4
17.5°	341.7	340.0	333.3	324.4	317.3	313.8	313.8	314.7	315.6
20°	336.9	334.3	324.9	314.3	306.2	303.6	304.5	306.2	307.1
22.5°	328.0	324.9	314.3	302.3	293.8	291.7	293.8	296.1	297.0
25°	317.8	314.3	301.8	289.4	280.5	277.9	280.9	284.5	285.9
27.5°	304.1	300.0	288.5	274.3	265.4	264.1	267.7	271.7	272.6
30°	287.6	283.2	270.3	257.0	249.1	248.6	252.6	256.1	257.4
32.5°	267.7	263.6	252.6	239.2	232.1	232.1	236.2	239.2	240.6
35°	246.3	241.9	232.1	221.0	215.3	215.7	219.7	221.9	223.3
37.5°	221.0	219.7	212.2	202.8	198.9	199.8	202.8	204.6	206.0
40°	200.6	197.1	192.2	184.6	181.9	182.8	186.0	187.8	188.6
42.5°	178.4	176.2	172.2	166.9	165.1	166.4	169.2	170.4	170.0
45°	157.1	156.7	152.7	149.6	148.7	150.5	152.2	153.6	154.0
47.5°	141.6	139.8	136.3	134.0	133.1	134.9	136.7	137.6	137.6
50°	126.4	124.8	121.1	119.0	118.1	119.9	121.1	122.0	121.1
52.5°	111.4	109.6	106.6	103.8	103.4	104.3	104.8	105.2	106.1
55°	99.4	97.6	94.1	91.0	90.1	90.5	90.1	90.1	89.6
57.5°	87.9	86.1	82.6	79.0	77.6	77.2	75.9	75.5	75.0
60°	77.6	75.5	71.9	67.9	66.1	64.4	62.1	60.8	60.8
62.5°	67.9	65.7	61.7	58.2	55.5	52.3	48.8	47.0	47.0
65°	58.5	56.8	52.3	48.4	44.9	40.8	36.8	35.9	36.8
67.5°	49.7	47.9	43.5	39.6	35.0	30.2	26.7	26.7	27.6
70°	41.7	40.0	35.9	31.1	26.2	21.4	18.6	18.6	18.6
72.5°	34.1	32.4	27.9	23.5	18.6	13.8	12.4	12.9	12.4
75°	26.7	25.3	21.4	16.4	12.0	8.5	8.0	7.6	8.0
77.5°	20.0	18.6	15.1	10.6	6.7	4.9	4.4	4.4	4.4
80°	13.8	12.4	9.7	6.2	3.5	2.3	2.3	2.3	2.3
82.5°	8.5	7.1	5.3	3.1	1.4	1.4	1.4	1.4	1.4
85°	4.0	3.1	2.3	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.9	0.9	0.5	0.5	0.0	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)