

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: P582854

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525827-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 661.4 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

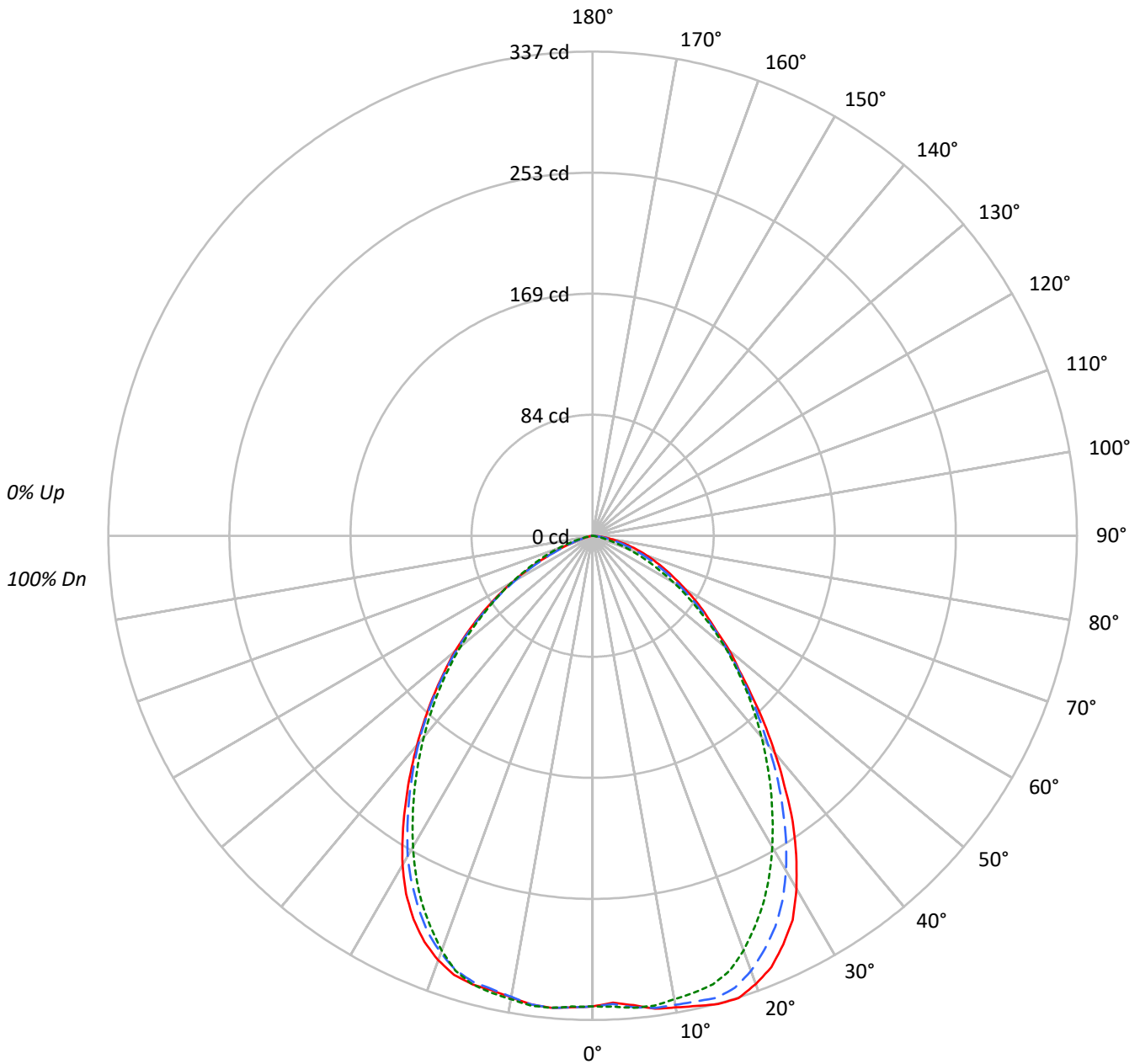
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	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	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	17959	17959	17959
5°	18050	18149	18149
10°	18553	18236	18158
15°	19149	18343	18343
20°	19368	17916	18336
25°	18981	17027	17826
30°	17952	15825	16743
35°	16249	14469	15178
40°	14134	13082	13597
45°	12079	11668	12079
50°	10601	10226	10644
55°	9242	8611	8955
60°	8179	7149	7061
65°	7251	5643	4838
70°	6411	3991	2917
75°	5465	2245	1419
80°	4072	726	442
85°	2201	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.4	4.8
10°-20°	91.9	13.9
20°-30°	134.3	20.3
30°-40°	140.8	21.3
40°-50°	118.6	17.9
50°-60°	83.1	12.6
60°-70°	44.6	6.7
70°-80°	15.0	2.3
80°-90°	1.7	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°	257.6	39.0
0°-40°	398.5	60.2
0°-60°	600.2	90.8
0°-90°	661.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	328	328	328	328	328	
5°	328	329	330	330	330	32
15°	337	333	323	321	323	95
25°	314	300	282	286	295	144
35°	243	230	216	222	227	151
45°	156	153	150	154	156	121
55°	97	94	90	92	94	87
65°	56	51	44	36	37	56
75°	26	20	11	7	7	27
85°	4	2	0	0	0	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6
2.5°	325.3	325.3	326.2	327.1	328.0	328.0	328.5	328.9	328.5
5°	328.0	328.0	329.4	329.8	329.8	329.4	329.8	329.8	329.8
7.5°	332.0	331.2	331.5	330.8	329.8	329.4	328.9	328.9	328.9
10°	333.3	332.4	331.5	329.8	327.6	326.2	325.8	326.2	326.2
12.5°	335.2	334.3	332.0	328.5	325.8	323.6	323.2	324.1	324.1
15°	337.4	336.5	332.9	327.1	323.2	320.9	321.4	322.3	323.2
17.5°	337.4	335.6	329.8	322.3	317.4	315.2	317.0	319.1	320.5
20°	332.0	330.3	322.3	312.9	307.1	305.9	308.9	312.9	314.3
22.5°	325.0	321.4	312.1	300.9	294.7	294.7	299.2	304.1	305.9
25°	313.8	311.2	300.5	287.7	281.5	281.0	286.3	293.0	294.7
27.5°	301.4	297.9	286.3	273.0	266.3	266.8	272.6	279.2	281.0
30°	283.6	279.2	269.1	256.2	250.0	251.7	257.4	262.4	264.5
32.5°	263.6	259.7	250.4	238.4	233.0	234.8	239.7	244.2	245.9
35°	242.8	238.4	230.4	219.8	216.2	218.0	222.4	226.0	226.8
37.5°	219.3	216.2	210.4	201.9	199.3	201.5	205.1	207.4	208.1
40°	197.5	194.9	190.0	183.7	182.8	184.6	188.3	189.5	190.0
42.5°	176.3	174.0	170.9	166.4	166.4	168.3	171.3	172.2	172.7
45°	155.8	154.5	153.1	149.6	150.5	152.7	154.5	155.8	155.8
47.5°	138.1	138.5	136.7	134.0	134.9	137.2	138.5	139.8	139.8
50°	124.3	122.9	121.1	118.5	119.9	121.6	123.4	124.3	124.8
52.5°	108.4	107.9	106.6	103.4	104.3	105.2	107.0	108.4	108.7
55°	96.7	95.5	93.7	90.1	90.1	91.0	91.9	92.8	93.7
57.5°	85.7	84.3	81.7	77.6	77.3	77.3	76.8	77.6	79.0
60°	74.6	74.1	70.2	66.6	65.2	64.0	62.1	62.6	64.4
62.5°	64.9	64.0	60.3	55.9	53.2	51.1	48.8	48.4	50.2
65°	55.9	55.0	51.1	46.6	43.5	39.6	35.9	35.9	37.3
67.5°	47.9	46.2	42.6	37.7	33.8	28.8	25.3	26.2	26.7
70°	40.0	38.6	34.6	29.7	24.9	20.0	17.7	18.2	18.2
72.5°	32.9	31.1	27.1	22.1	17.3	12.9	12.0	11.5	11.5
75°	25.8	24.0	20.0	15.1	10.6	7.6	6.7	6.7	6.7
77.5°	18.6	17.3	13.8	9.3	5.8	3.5	3.1	2.7	2.7
80°	12.9	11.5	8.5	4.9	2.3	1.4	1.4	1.4	1.4
82.5°	7.6	6.2	4.0	2.3	0.9	0.5	0.5	0.5	0.5
85°	3.5	2.7	1.8	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	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)