

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: P582890

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582890  
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-HM60525835-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 722.7 lumens  
Efficiency: N/A  
Efficacy: 120.5 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

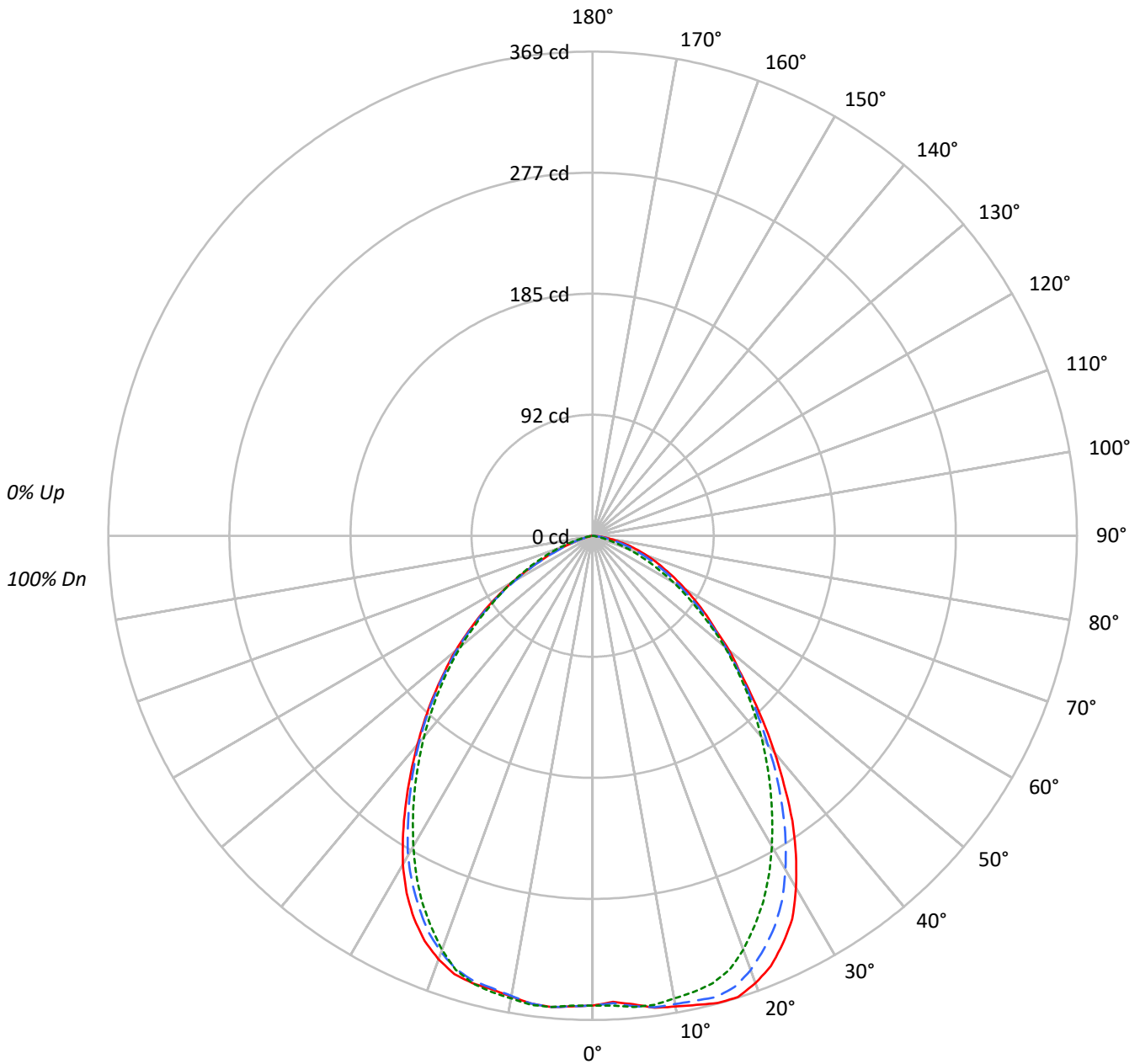
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	60																			
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°	19626	19626	19626
5°	19723	19838	19838
10°	20279	19928	19845
15°	20920	20040	20040
20°	21165	19584	20033
25°	20747	18606	19477
30°	19623	17287	18300
35°	17755	15814	16590
40°	15443	14305	14856
45°	13203	12746	13203
50°	11582	11172	11624
55°	10112	9405	9787
60°	8936	7817	7708
65°	7926	6174	5292
70°	6988	4344	3190
75°	5952	2457	1525
80°	4420	758	474
85°	2390	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	4.8
10°-20°	100.5	13.9
20°-30°	146.7	20.3
30°-40°	153.9	21.3
40°-50°	129.6	17.9
50°-60°	90.8	12.6
60°-70°	48.7	6.7
70°-80°	16.3	2.3
80°-90°	1.8	0.2
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°	281.5	39.0
0°-40°	435.4	60.2
0°-60°	655.9	90.8
0°-90°	722.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	358	358	358	358	358	
5°	358	360	360	360	360	34
15°	369	364	353	351	353	104
25°	343	328	308	313	322	157
35°	265	252	236	243	248	165
45°	170	167	164	169	170	133
55°	106	102	98	100	102	95
65°	61	56	48	39	41	61
75°	28	22	12	7	7	30
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°	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0
2.5°	355.6	355.6	356.5	357.5	358.4	358.4	359.0	359.5	359.0
5°	358.4	358.4	359.9	360.5	360.5	359.9	360.5	360.5	360.5
7.5°	362.8	361.8	362.4	361.4	360.5	359.9	359.5	359.5	359.5
10°	364.3	363.3	362.4	360.5	358.0	356.5	356.1	356.5	356.5
12.5°	366.2	365.2	362.8	359.0	356.1	353.6	353.1	354.1	354.1
15°	368.6	367.7	363.9	357.5	353.1	350.8	351.2	352.2	353.1
17.5°	368.6	366.7	360.5	352.2	346.8	344.4	346.3	348.7	350.2
20°	362.8	360.9	352.2	341.9	335.7	334.3	337.6	341.9	343.4
22.5°	355.0	351.2	341.0	328.8	322.0	322.0	326.9	332.3	334.3
25°	343.0	340.0	328.4	314.4	307.6	307.0	312.9	320.1	322.0
27.5°	329.4	325.4	312.9	298.3	291.1	291.5	297.9	305.1	307.0
30°	310.0	305.1	293.9	279.9	273.1	275.0	281.4	286.7	289.1
32.5°	288.2	283.7	273.6	260.5	254.7	256.6	261.9	266.8	268.7
35°	265.3	260.5	251.8	240.1	236.3	238.2	243.1	246.9	247.9
37.5°	239.7	236.3	230.0	220.7	217.8	220.2	224.1	226.6	227.5
40°	215.8	213.0	207.6	200.8	199.9	201.8	205.7	207.1	207.6
42.5°	192.6	190.2	186.8	181.9	181.9	183.9	187.2	188.3	188.7
45°	170.3	168.8	167.4	163.5	164.4	166.9	168.8	170.3	170.3
47.5°	150.9	151.3	149.4	146.4	147.5	149.8	151.3	152.8	152.8
50°	135.8	134.4	132.4	129.5	131.0	132.9	134.8	135.8	136.3
52.5°	118.3	117.9	116.4	113.0	114.0	114.9	117.0	118.3	118.9
55°	105.8	104.3	102.4	98.4	98.4	99.4	100.5	101.4	102.4
57.5°	93.7	92.2	89.3	84.9	84.4	84.4	84.0	84.9	86.3
60°	81.5	81.0	76.6	72.8	71.3	69.8	67.9	68.4	70.3
62.5°	70.9	69.8	66.0	61.1	58.2	55.8	53.3	52.9	54.8
65°	61.1	60.1	55.8	51.0	47.6	43.2	39.3	39.3	40.8
67.5°	52.4	50.4	46.6	41.2	36.8	31.5	27.7	28.6	29.2
70°	43.6	42.1	37.9	32.5	27.1	21.8	19.4	19.9	19.9
72.5°	35.9	33.9	29.6	24.3	18.9	14.0	13.1	12.7	12.7
75°	28.1	26.2	21.8	16.5	11.6	8.2	7.2	7.2	7.2
77.5°	20.3	18.9	15.0	10.2	6.3	3.8	3.4	2.9	2.9
80°	14.0	12.7	9.3	5.3	2.4	1.5	1.5	1.5	1.5
82.5°	8.2	6.8	4.4	2.4	1.0	0.5	0.5	0.5	0.5
85°	3.8	2.9	1.9	1.0	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)