

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: P581667

Luminaire Tested: **HC610D010-HM60525935-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581667  
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: HC610D010-HM60525935-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1052.9 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

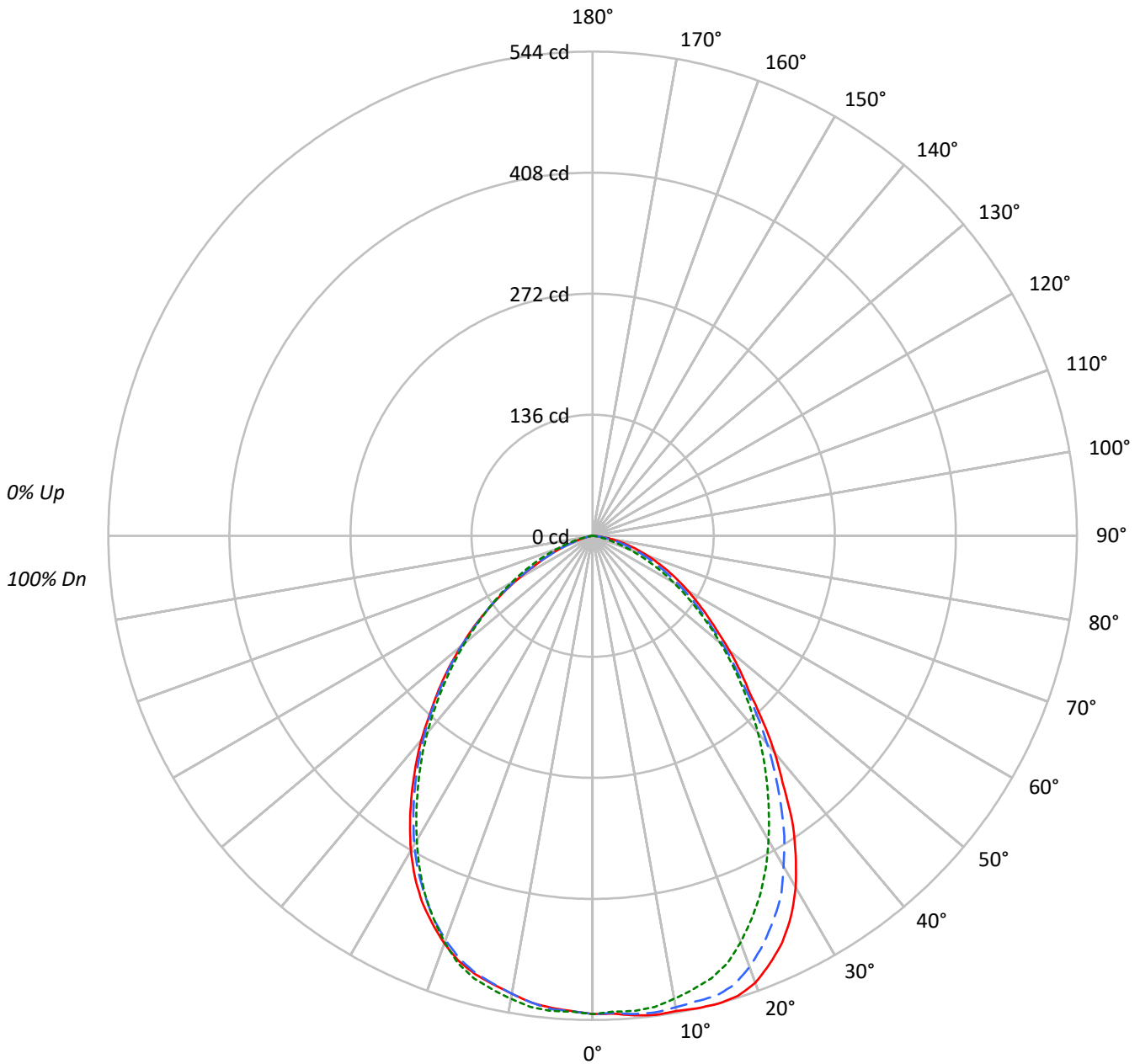
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	29460	29460	29460
5°	29765	29490	29298
10°	30182	29403	29085
15°	30897	29217	28939
20°	31182	28352	28428
25°	30498	26923	27431
30°	28884	25010	25852
35°	26160	22854	23704
40°	22778	20667	21419
45°	19328	18289	18948
50°	17117	15974	16392
55°	15082	13667	13600
60°	13519	11501	10569
65°	12051	9223	7575
70°	10611	6652	4728
75°	8938	4024	2690
80°	6882	1799	1105
85°	3963	440	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	4.8
10°-20°	146.6	13.9
20°-30°	211.9	20.1
30°-40°	223.0	21.2
40°-50°	187.4	17.8
50°-60°	131.6	12.5
60°-70°	72.4	6.9
70°-80°	25.7	2.4
80°-90°	3.4	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°	409.5	38.9
0°-40°	632.5	60.1
0°-60°	951.5	90.4
0°-90°	1052.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	537	537	537	537	537	
5°	541	539	536	534	532	52
15°	544	535	515	508	510	154
25°	504	479	445	446	454	231
35°	391	368	342	349	354	242
45°	249	242	236	242	244	196
55°	158	149	143	143	142	142
65°	93	83	71	58	58	93
75°	42	34	19	13	13	45
85°	6	4	1	1	1	9
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°	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4
2.5°	537.4	537.4	536.7	536.7	535.2	535.2	534.5	534.5	534.5
5°	540.9	540.9	539.4	537.4	535.9	533.9	533.9	533.1	532.4
7.5°	543.0	542.2	540.2	537.4	533.9	530.3	528.9	529.5	528.9
10°	542.2	540.9	538.0	532.4	528.2	523.2	522.5	521.9	522.5
12.5°	543.7	541.5	535.9	528.9	521.9	516.2	515.5	515.5	516.2
15°	544.4	542.2	535.2	524.7	514.8	509.2	508.5	509.2	509.9
17.5°	542.2	539.4	528.9	514.8	503.5	497.9	497.9	499.3	500.7
20°	534.5	530.3	515.5	498.6	486.0	481.7	483.1	486.0	487.3
22.5°	520.4	515.5	498.6	479.6	466.2	462.6	466.2	469.8	471.1
25°	504.2	498.6	478.8	459.1	445.1	440.8	445.8	451.4	453.5
27.5°	482.5	476.1	457.8	435.3	421.1	419.1	424.6	431.0	432.4
30°	456.3	449.3	428.9	407.7	395.1	394.4	400.7	406.4	408.4
32.5°	424.6	418.3	400.7	379.6	368.4	368.4	374.7	379.6	381.7
35°	390.9	383.9	368.4	350.7	341.5	342.3	348.7	352.2	354.2
37.5°	350.7	348.7	336.7	321.8	315.5	317.0	321.8	324.7	326.8
40°	318.3	312.7	305.0	293.0	288.8	290.1	295.1	297.9	299.3
42.5°	283.1	279.6	273.3	264.8	261.9	264.1	268.3	270.4	269.8
45°	249.3	248.6	242.2	237.4	235.9	238.7	241.6	243.7	244.4
47.5°	224.7	221.9	216.2	212.7	211.2	214.1	216.9	218.4	218.4
50°	200.7	197.9	192.2	188.7	187.3	190.2	192.2	193.7	192.2
52.5°	176.8	174.0	169.0	164.8	164.1	165.5	166.2	166.9	168.3
55°	157.8	155.0	149.3	144.3	143.0	143.7	143.0	143.0	142.3
57.5°	139.5	136.6	131.0	125.3	123.3	122.5	120.4	119.8	119.0
60°	123.3	119.8	114.1	107.8	104.9	102.1	98.6	96.4	96.4
62.5°	107.8	104.3	97.9	92.3	88.1	83.1	77.4	74.6	74.6
65°	92.9	90.1	83.1	76.7	71.1	64.8	58.4	57.1	58.4
67.5°	78.9	76.1	69.1	62.7	55.6	47.9	42.2	42.2	43.7
70°	66.2	63.4	57.1	49.2	41.5	33.8	29.5	29.5	29.5
72.5°	54.2	51.4	44.4	37.4	29.5	21.8	19.7	20.4	19.7
75°	42.2	40.2	33.8	26.0	19.0	13.4	12.7	12.0	12.7
77.5°	31.7	29.5	24.0	16.9	10.5	7.7	7.0	7.0	7.0
80°	21.8	19.7	15.5	9.8	5.7	3.5	3.5	3.5	3.5
82.5°	13.4	11.3	8.5	5.0	2.2	2.2	2.2	2.2	2.2
85°	6.3	5.0	3.5	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	0.7	0.7	0.0	0.7	0.7	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)