

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: P593084

Luminaire Tested: **HC610D010-HM60525950-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593084  
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-HM60525950-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1066.1 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

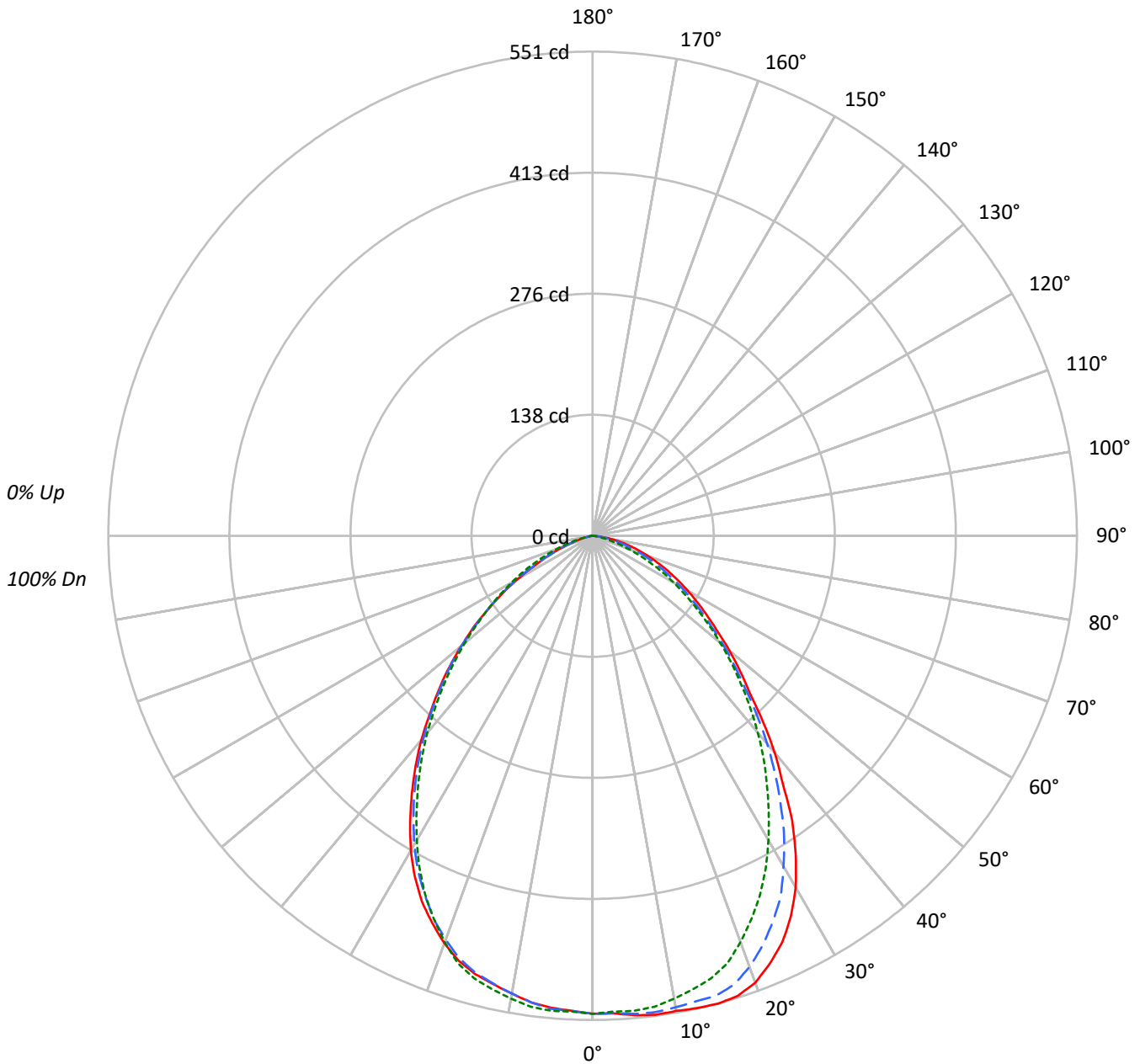
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	29822	29822	29822
5°	30140	29865	29666
10°	30561	29770	29453
15°	31283	29586	29302
20°	31573	28702	28784
25°	30879	27256	27782
30°	29251	25320	26181
35°	26481	23142	23999
40°	23065	20925	21683
45°	19568	18521	19188
50°	17330	16179	16605
55°	15263	13839	13763
60°	13672	11655	10712
65°	12206	9340	7679
70°	10739	6748	4809
75°	9065	4067	2711
80°	6977	1799	1105
85°	4088	440	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	4.8
10°-20°	148.4	13.9
20°-30°	214.6	20.1
30°-40°	225.8	21.2
40°-50°	189.8	17.8
50°-60°	133.2	12.5
60°-70°	73.3	6.9
70°-80°	26.0	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°	414.6	38.9
0°-40°	640.4	60.1
0°-60°	963.4	90.4
0°-90°	1066.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	544	544	544	544	544	
5°	548	546	543	540	539	52
15°	551	542	521	515	516	156
25°	510	485	451	451	459	234
35°	396	373	346	353	359	245
45°	252	245	239	245	248	198
55°	160	151	145	145	144	144
65°	94	84	72	59	59	94
75°	43	34	19	13	13	46
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°	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0
2.5°	544.0	544.0	543.4	543.4	541.9	541.9	541.2	541.2	541.2
5°	547.7	547.7	546.2	544.0	542.7	540.5	540.5	539.7	539.1
7.5°	549.8	549.0	546.9	544.0	540.5	536.9	535.5	536.2	535.5
10°	549.0	547.7	544.8	539.1	534.8	529.8	529.1	528.4	529.1
12.5°	550.5	548.3	542.7	535.5	528.4	522.6	522.0	522.0	522.6
15°	551.2	549.0	541.9	531.2	521.3	515.5	514.8	515.5	516.3
17.5°	549.0	546.2	535.5	521.3	509.9	504.2	504.2	505.6	507.0
20°	541.2	536.9	522.0	504.9	492.0	487.8	489.1	492.0	493.4
22.5°	526.9	522.0	504.9	485.6	472.0	468.5	472.0	475.7	477.0
25°	510.5	504.9	484.8	464.9	450.6	446.3	451.3	457.1	459.3
27.5°	488.5	482.0	463.4	440.7	426.4	424.3	429.9	436.4	437.9
30°	462.1	455.0	434.2	412.8	400.0	399.4	405.7	411.5	413.6
32.5°	429.9	423.6	405.7	384.3	372.9	372.9	379.3	384.3	386.5
35°	395.7	388.6	372.9	355.1	345.8	346.5	353.0	356.6	358.6
37.5°	355.1	353.0	340.8	325.9	319.5	320.9	325.9	328.7	330.9
40°	322.3	316.6	308.8	296.6	292.4	293.8	298.7	301.7	303.0
42.5°	286.6	283.1	276.7	268.1	265.2	267.4	271.7	273.8	273.2
45°	252.4	251.8	245.3	240.3	238.9	241.7	244.6	246.8	247.5
47.5°	227.4	224.6	218.9	215.3	213.9	216.8	219.6	221.1	221.1
50°	203.2	200.4	194.7	191.1	189.7	192.6	194.7	196.1	194.7
52.5°	179.0	176.1	171.2	166.9	166.2	167.5	168.3	169.0	170.4
55°	159.7	156.9	151.1	146.1	144.8	145.5	144.8	144.8	144.0
57.5°	141.2	138.3	132.7	126.9	124.7	124.1	121.9	121.2	120.6
60°	124.7	121.2	115.5	109.1	106.3	103.4	99.8	97.7	97.7
62.5°	109.1	105.5	99.2	93.4	89.1	84.1	78.4	75.6	75.6
65°	94.1	91.2	84.1	77.8	72.0	65.7	59.2	57.7	59.2
67.5°	79.9	77.0	69.8	63.5	56.4	48.4	42.8	42.8	44.3
70°	67.0	64.2	57.7	49.9	42.1	34.2	30.0	30.0	30.0
72.5°	54.9	52.1	44.9	37.8	30.0	22.1	19.9	20.7	19.9
75°	42.8	40.6	34.2	26.4	19.2	13.6	12.8	12.1	12.8
77.5°	32.0	30.0	24.2	17.1	10.6	7.8	7.1	7.1	7.1
80°	22.1	19.9	15.7	10.0	5.7	3.5	3.5	3.5	3.5
82.5°	13.6	11.4	8.6	5.0	2.2	2.2	2.2	2.2	2.2
85°	6.5	5.0	3.5	1.5	0.7	0.7	0.7	0.7	0.7
87.5°	1.5	1.5	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)