

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: P581596

Luminaire Tested: **HC610D010-HM60525835-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581596  
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-HM60525835-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1185.5 lumens  
Efficiency: N/A  
Efficacy: 119.7 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

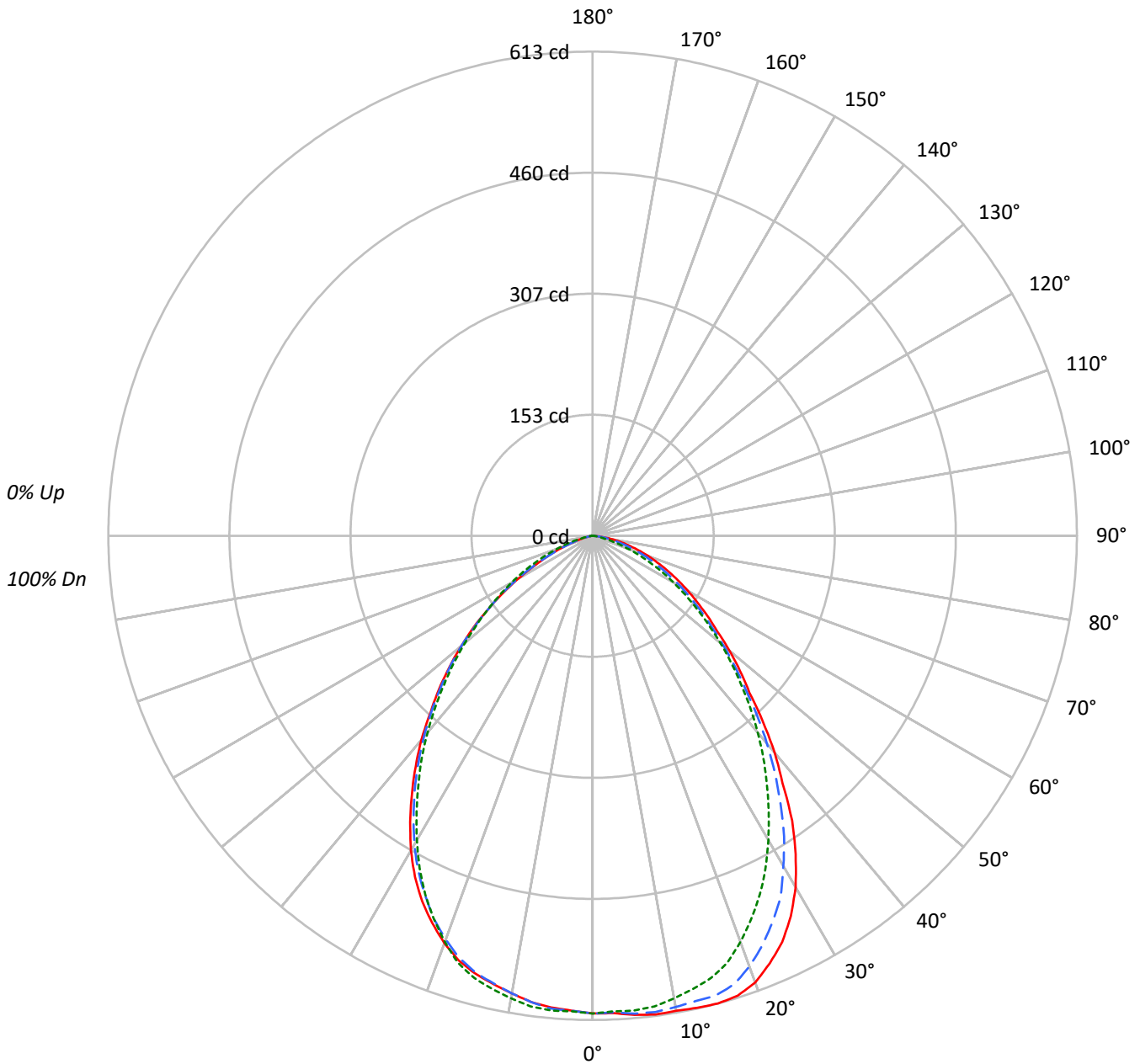
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
RC	80				70				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			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°	33161	33161	33161
5°	33508	33205	32985
10°	33984	33099	32748
15°	34790	32895	32577
20°	35108	31917	32010
25°	34339	30310	30885
30°	32524	28163	29112
35°	29453	25732	26689
40°	25648	23265	24117
45°	21762	20599	21336
50°	19266	17987	18456
55°	16974	15388	15311
60°	15218	12959	11918
65°	13581	10377	8535
70°	11941	7501	5337
75°	10061	4533	3029
80°	7766	1989	1263
85°	4466	503	503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	4.8
10°-20°	165.0	13.9
20°-30°	238.6	20.1
30°-40°	251.0	21.2
40°-50°	211.0	17.8
50°-60°	148.1	12.5
60°-70°	81.5	6.9
70°-80°	28.9	2.4
80°-90°	3.8	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°	461.1	38.9
0°-40°	712.1	60.1
0°-60°	1071.3	90.4
0°-90°	1185.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	605	605	605	605	605	
5°	609	607	603	601	599	58
15°	613	603	580	572	574	173
25°	568	539	501	502	511	260
35°	440	415	384	392	399	273
45°	281	273	266	272	275	220
55°	178	168	161	161	160	160
65°	105	94	80	66	66	104
75°	48	38	21	14	14	51
85°	7	4	1	1	1	10
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°	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9	604.9
2.5°	604.9	604.9	604.1	604.1	602.6	602.6	601.8	601.8	601.8
5°	608.9	608.9	607.3	604.9	603.4	601.0	601.0	600.2	599.4
7.5°	611.3	610.5	608.1	604.9	601.0	597.0	595.4	596.2	595.4
10°	610.5	608.9	605.7	599.4	594.6	589.1	588.3	587.5	588.3
12.5°	612.1	609.7	603.4	595.4	587.5	581.2	580.4	580.4	581.2
15°	613.0	610.5	602.6	590.7	579.6	573.2	572.5	573.2	574.0
17.5°	610.5	607.3	595.4	579.6	566.9	560.6	560.6	562.2	563.7
20°	601.8	597.0	580.4	561.4	547.1	542.3	543.9	547.1	548.7
22.5°	585.9	580.4	561.4	540.0	524.9	520.9	524.9	528.9	530.5
25°	567.7	561.4	539.2	517.0	501.1	496.4	501.9	508.3	510.6
27.5°	543.1	536.0	515.4	490.0	474.2	471.8	478.2	485.3	486.9
30°	513.8	505.9	482.9	459.1	444.9	444.1	451.2	457.6	459.9
32.5°	478.2	471.0	451.2	427.3	414.7	414.7	421.8	427.3	429.7
35°	440.1	432.1	414.7	394.8	384.5	385.3	392.5	396.4	398.8
37.5°	394.8	392.5	379.0	362.4	355.2	356.8	362.4	365.5	367.9
40°	358.4	352.1	343.3	329.9	325.1	326.7	332.2	335.4	337.0
42.5°	318.8	314.8	307.7	298.2	295.0	297.4	302.1	304.5	303.7
45°	280.7	279.9	272.8	267.3	265.7	268.8	272.0	274.4	275.2
47.5°	252.9	249.7	243.4	239.4	237.8	241.0	244.2	245.8	245.8
50°	225.9	222.8	216.4	212.5	210.9	214.1	216.4	218.0	216.4
52.5°	199.0	195.8	190.3	185.5	184.7	186.3	187.1	187.9	189.5
55°	177.6	174.4	168.1	162.6	161.0	161.8	161.0	161.0	160.2
57.5°	157.0	153.8	147.5	141.2	138.8	138.0	135.6	134.8	134.0
60°	138.8	134.8	128.5	121.4	118.2	115.0	111.0	108.7	108.7
62.5°	121.4	117.4	110.3	103.9	99.2	93.6	87.2	84.0	84.0
65°	104.7	101.5	93.6	86.4	80.0	72.9	65.8	64.2	65.8
67.5°	88.9	85.6	77.7	70.5	62.6	53.9	47.5	47.5	49.1
70°	74.5	71.3	64.2	55.5	46.8	38.0	33.3	33.3	33.3
72.5°	61.0	57.8	49.9	42.0	33.3	24.6	22.2	23.0	22.2
75°	47.5	45.2	38.0	29.3	21.4	15.1	14.3	13.5	14.3
77.5°	35.7	33.3	26.9	19.0	11.9	8.7	7.9	7.9	7.9
80°	24.6	22.2	17.4	11.1	6.3	4.0	4.0	4.0	4.0
82.5°	15.1	12.7	9.5	5.5	2.4	2.4	2.4	2.4	2.4
85°	7.1	5.5	4.0	1.6	0.8	0.8	0.8	0.8	0.8
87.5°	1.6	1.6	0.8	0.8	0.0	0.8	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)