

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: P582891

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582891  
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: HC605D010-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: 725.2 lumens  
Efficiency: N/A  
Efficacy: 120.9 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

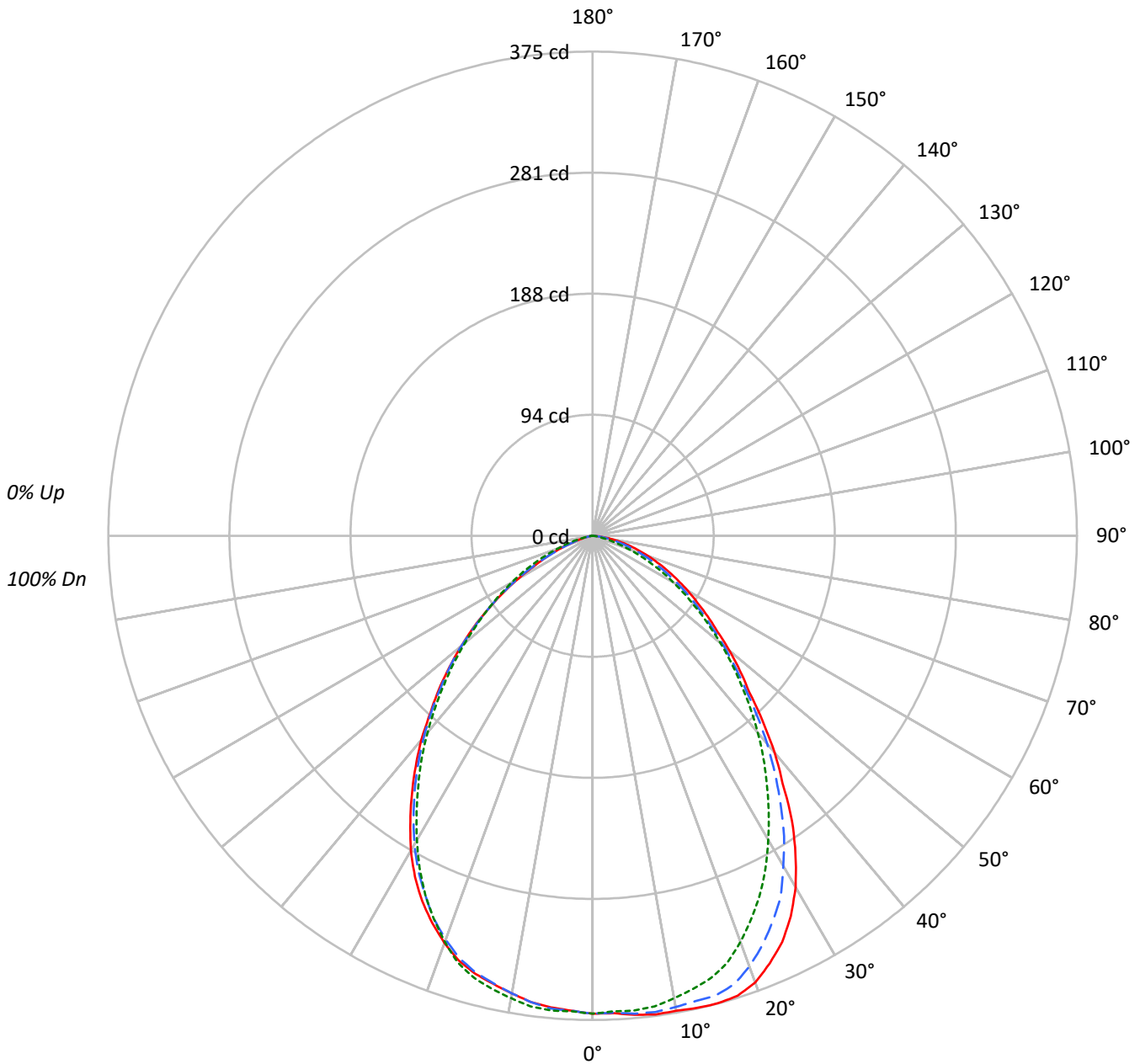
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	20289	20289	20289
5°	20493	20311	20179
10°	20791	20246	20034
15°	21277	20125	19932
20°	21480	19526	19578
25°	21001	18545	18890
30°	19895	17224	17813
35°	18016	15747	16329
40°	15687	14234	14749
45°	13304	12598	13048
50°	11786	11002	11292
55°	10380	9405	9366
60°	9308	7927	7280
65°	8315	6356	5215
70°	7293	4584	3254
75°	6185	2775	1843
80°	4735	1200	758
85°	2768	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.1	4.8
10°-20°	101.0	13.9
20°-30°	145.9	20.1
30°-40°	153.6	21.2
40°-50°	129.1	17.8
50°-60°	90.6	12.5
60°-70°	49.8	6.9
70°-80°	17.7	2.4
80°-90°	2.3	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°	282.0	38.9
0°-40°	435.6	60.1
0°-60°	655.3	90.4
0°-90°	725.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	370	370	370	370	370	
5°	372	372	369	368	367	36
15°	375	369	355	350	351	106
25°	347	330	307	307	312	159
35°	269	254	235	240	244	167
45°	172	167	162	166	168	135
55°	109	103	98	98	98	98
65°	64	57	49	40	40	64
75°	29	23	13	9	9	31
85°	4	2	0	0	0	6
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°	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1
2.5°	370.1	370.1	369.6	369.6	368.6	368.6	368.2	368.2	368.2
5°	372.4	372.4	371.5	370.1	369.1	367.7	367.7	367.1	366.7
7.5°	373.9	373.5	372.0	370.1	367.7	365.2	364.3	364.8	364.3
10°	373.5	372.4	370.5	366.7	363.7	360.4	359.9	359.5	359.9
12.5°	374.5	373.0	369.1	364.3	359.5	355.5	355.0	355.0	355.5
15°	374.9	373.5	368.6	361.4	354.6	350.6	350.2	350.6	351.2
17.5°	373.5	371.5	364.3	354.6	346.8	343.0	343.0	343.9	344.9
20°	368.2	365.2	355.0	343.4	334.7	331.8	332.8	334.7	335.6
22.5°	358.4	355.0	343.4	330.3	321.1	318.7	321.1	323.5	324.5
25°	347.2	343.4	329.8	316.3	306.6	303.6	307.0	310.9	312.3
27.5°	332.2	327.9	315.3	299.8	290.1	288.6	292.4	296.9	297.8
30°	314.3	309.4	295.4	280.8	272.1	271.7	275.9	279.9	281.4
32.5°	292.4	288.2	275.9	261.5	253.7	253.7	258.1	261.5	262.8
35°	269.2	264.3	253.7	241.6	235.3	235.7	240.1	242.5	244.0
37.5°	241.6	240.1	231.9	221.7	217.3	218.3	221.7	223.6	225.1
40°	219.2	215.4	210.1	201.8	198.9	199.8	203.2	205.2	206.1
42.5°	195.0	192.6	188.1	182.4	180.5	181.9	184.8	186.2	185.8
45°	171.6	171.2	166.9	163.5	162.5	164.4	166.3	167.8	168.3
47.5°	154.7	152.8	148.9	146.4	145.5	147.5	149.4	150.4	150.4
50°	138.2	136.3	132.4	130.0	129.0	131.0	132.4	133.3	132.4
52.5°	121.7	119.8	116.4	113.5	113.0	114.0	114.5	114.9	115.9
55°	108.6	106.7	102.8	99.4	98.4	99.0	98.4	98.4	98.0
57.5°	96.0	94.1	90.2	86.3	84.9	84.4	82.9	82.5	81.9
60°	84.9	82.5	78.5	74.2	72.3	70.3	67.9	66.4	66.4
62.5°	74.2	71.8	67.5	63.5	60.7	57.2	53.3	51.4	51.4
65°	64.1	62.0	57.2	52.9	49.0	44.6	40.2	39.3	40.2
67.5°	54.4	52.4	47.6	43.2	38.3	33.0	29.2	29.2	30.1
70°	45.5	43.6	39.3	33.9	28.6	23.3	20.3	20.3	20.3
72.5°	37.4	35.4	30.5	25.7	20.3	15.0	13.6	14.0	13.6
75°	29.2	27.7	23.3	18.0	13.1	9.3	8.7	8.2	8.7
77.5°	21.8	20.3	16.5	11.6	7.2	5.3	4.9	4.9	4.9
80°	15.0	13.6	10.6	6.8	3.8	2.4	2.4	2.4	2.4
82.5°	9.3	7.8	5.9	3.4	1.5	1.5	1.5	1.5	1.5
85°	4.4	3.4	2.4	1.0	0.5	0.5	0.5	0.5	0.5
87.5°	1.0	1.0	0.5	0.5	0.0	0.5	0.5	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)