

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: P582898

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525835-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 671.3 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

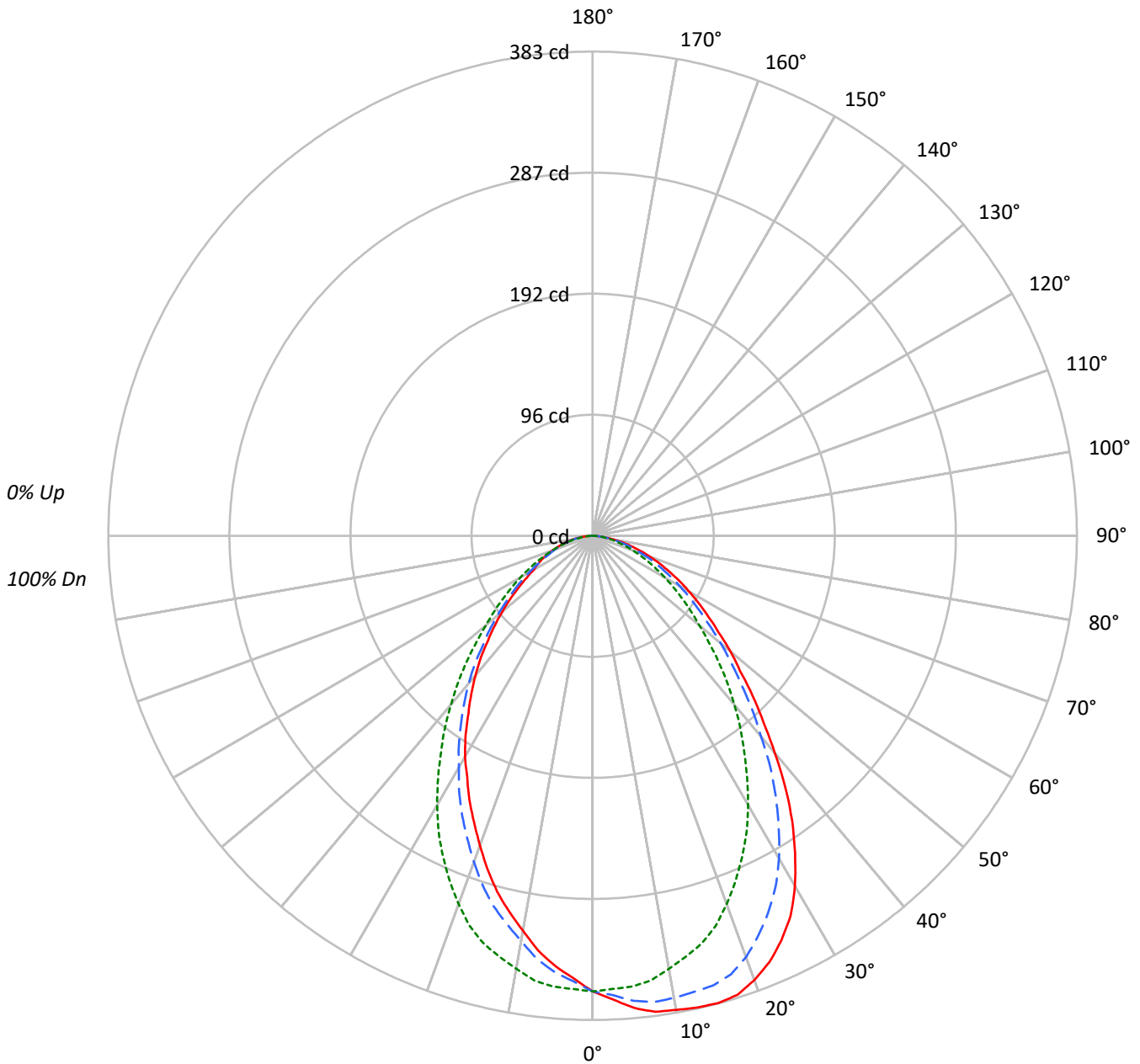
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20					
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								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

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

	0°	90°	180°
0°	19757	19757	19757
5°	20631	19701	18793
10°	21198	19361	17657
15°	21720	18939	16544
20°	21813	18085	15197
25°	21358	16930	13936
30°	20263	15566	12774
35°	18404	13987	11457
40°	16037	12459	10312
45°	13877	10908	9055
50°	12128	9390	7940
55°	10714	8248	6815
60°	9626	7236	5899
65°	8613	6291	5733
70°	7694	5353	5353
75°	6672	4533	5020
80°	5367	3820	4609
85°	3711	3334	3963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.9	5.0
10°-20°	94.2	14.0
20°-30°	131.2	19.5
30°-40°	135.2	20.1
40°-50°	112.0	16.7
50°-60°	80.5	12.0
60°-70°	51.3	7.6
70°-80°	26.3	3.9
80°-90°	6.7	1.0
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°	259.2	38.6
0°-40°	394.4	58.8
0°-60°	587.0	87.4
0°-90°	671.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	360	360	360	360	360	
5°	375	369	358	346	342	36
15°	383	368	334	303	292	108
25°	353	329	280	244	230	162
35°	275	253	209	181	171	171
45°	179	166	141	123	117	139
55°	112	103	86	77	71	101
65°	66	59	48	42	44	67
75°	32	27	21	22	24	34
85°	6	5	5	6	6	7
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°	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4
2.5°	367.1	365.7	363.7	361.8	358.9	355.5	352.7	351.7	350.2
5°	374.9	373.0	369.2	364.3	358.0	351.7	346.3	343.0	341.5
7.5°	379.8	377.4	372.0	363.7	354.6	345.3	337.6	332.8	330.8
10°	380.8	378.3	371.1	359.9	347.8	335.2	325.4	319.7	317.2
12.5°	382.2	378.8	369.6	356.5	341.0	326.5	314.3	307.0	304.6
15°	382.7	378.8	368.2	352.1	333.7	316.3	303.2	294.4	291.5
17.5°	380.8	376.4	363.7	344.4	323.5	305.1	289.6	280.4	276.5
20°	373.9	369.2	354.6	332.8	310.0	290.5	274.6	264.9	260.5
22.5°	365.2	358.9	342.4	319.1	295.4	275.0	259.0	249.3	245.0
25°	353.1	347.2	328.8	304.1	279.9	258.5	244.0	233.8	230.4
27.5°	339.0	332.2	313.3	288.6	263.9	242.5	228.5	219.2	214.9
30°	320.1	313.8	294.9	270.2	245.9	226.0	211.4	203.7	201.8
32.5°	297.9	292.4	274.0	250.7	227.5	209.0	197.0	188.7	186.8
35°	275.0	268.7	252.7	230.9	209.0	192.6	181.4	174.1	171.2
37.5°	250.3	244.4	230.9	211.4	192.1	176.5	166.9	160.6	157.6
40°	224.1	219.7	207.1	191.6	174.1	160.6	152.3	147.0	144.1
42.5°	199.8	195.5	186.8	172.2	157.6	145.5	138.2	133.3	131.0
45°	179.0	175.1	166.3	153.8	140.7	130.5	122.7	119.3	116.8
47.5°	158.1	156.2	148.4	136.7	124.6	115.9	110.6	106.7	104.8
50°	142.2	139.7	132.4	120.3	110.1	103.3	98.4	95.0	93.1
52.5°	125.7	123.2	116.4	106.2	98.0	91.6	86.8	84.0	81.9
55°	112.1	110.1	102.8	93.6	86.3	81.0	76.6	73.2	71.3
57.5°	99.4	97.5	90.7	81.9	75.7	70.9	66.9	64.1	61.6
60°	87.8	86.3	79.6	71.3	66.0	61.1	57.7	55.3	53.8
62.5°	77.6	74.7	68.9	61.6	56.7	52.9	49.5	48.0	49.0
65°	66.4	65.0	59.2	52.9	48.5	44.6	42.1	43.2	44.2
67.5°	57.3	55.3	50.4	44.6	40.8	37.9	36.4	38.3	38.8
70°	48.0	46.1	41.7	36.8	33.4	31.5	31.5	33.0	33.4
72.5°	39.3	37.9	33.9	30.1	27.7	26.2	27.1	28.1	28.6
75°	31.5	30.1	27.1	23.7	21.4	21.4	22.3	23.3	23.7
77.5°	24.3	23.3	20.3	18.0	17.0	17.0	18.0	18.4	18.9
80°	17.0	16.0	14.6	13.1	12.1	13.1	14.0	14.0	14.6
82.5°	11.2	10.6	9.7	8.7	8.7	9.3	9.7	10.2	10.2
85°	5.9	5.9	5.3	4.9	5.3	5.9	5.9	6.3	6.3
87.5°	1.9	1.9	1.9	1.9	2.4	2.4	2.4	2.4	2.4
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)