

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: P582863

Luminaire Tested: **HC605D010-HM60525827-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525827-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 636.1 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

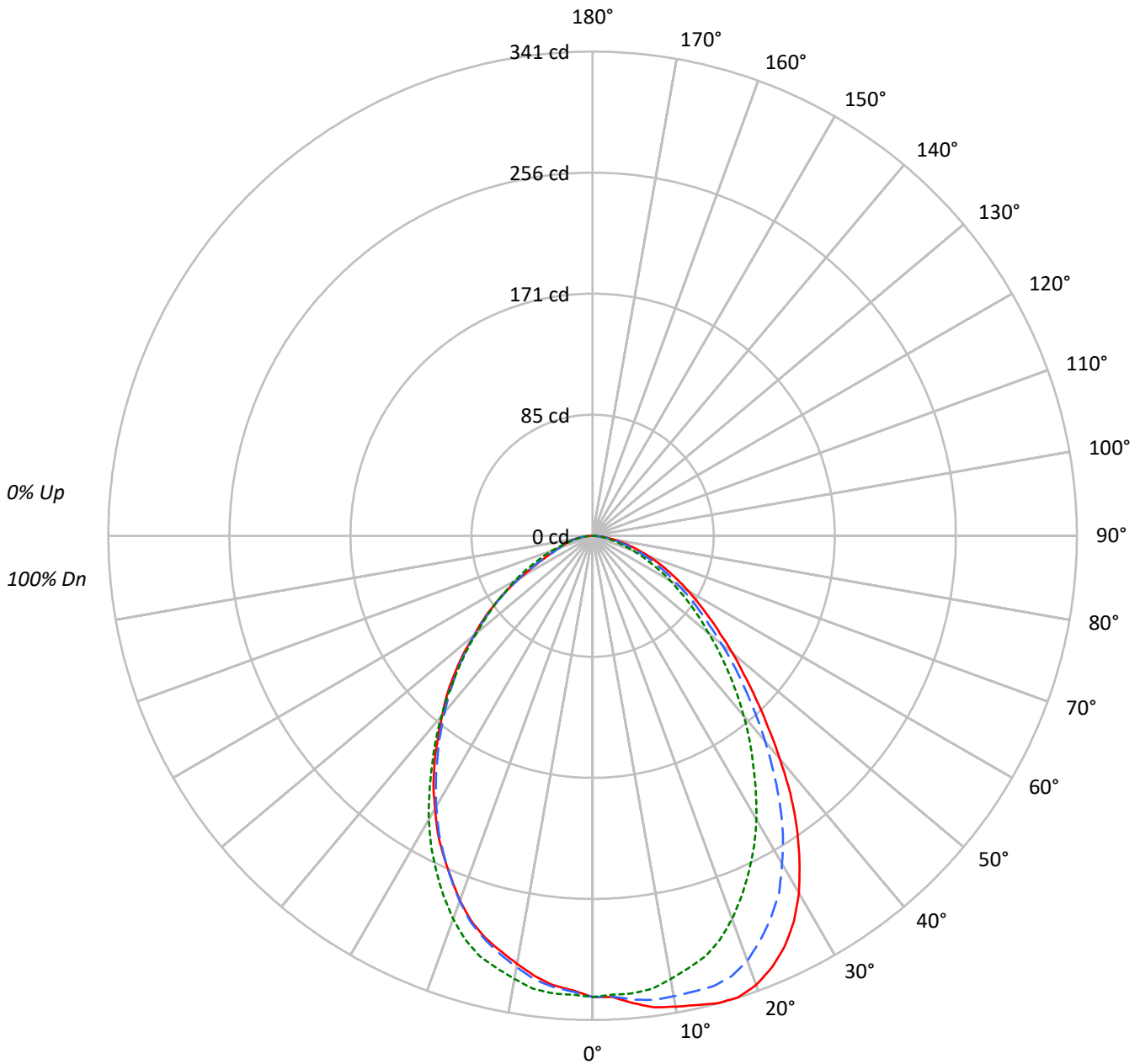
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	69	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

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

	0°	90°	180°
0°	17806	17806	17806
5°	18187	17802	17488
10°	18743	17641	17039
15°	19342	17401	16623
20°	19643	16749	15944
25°	19326	15757	15031
30°	18395	14604	14040
35°	16778	13184	12976
40°	14670	11844	11779
45°	12621	10427	10660
50°	10976	9074	9270
55°	9577	7971	8057
60°	8508	6918	6315
65°	7588	5824	4838
70°	6684	4760	4055
75°	5740	3749	3855
80°	4641	3220	3788
85°	3082	2768	3334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.8	4.8
10°-20°	87.5	13.8
20°-30°	125.0	19.6
30°-40°	130.9	20.6
40°-50°	110.2	17.3
50°-60°	78.4	12.3
60°-70°	45.9	7.2
70°-80°	21.7	3.4
80°-90°	5.6	0.9
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°	243.3	38.2
0°-40°	374.2	58.8
0°-60°	562.8	88.5
0°-90°	636.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	636.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	325	325	325	325	325	
5°	330	328	324	319	318	32
15°	341	328	307	294	293	96
25°	320	297	260	248	248	146
35°	251	230	197	190	194	156
45°	163	151	134	135	138	126
55°	100	92	83	83	84	90
65°	58	52	45	38	37	58
75°	27	23	18	17	18	29
85°	5	4	4	5	5	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°	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8	324.8
2.5°	325.2	325.2	324.8	324.3	323.5	322.2	321.3	320.4	320.4
5°	330.5	329.7	327.9	325.7	323.5	320.8	319.0	317.8	317.8
7.5°	335.0	333.2	329.7	325.7	321.7	318.1	315.0	313.2	312.8
10°	336.7	334.6	329.3	323.1	316.9	311.9	308.4	306.1	306.1
12.5°	338.5	335.9	328.8	319.9	311.9	305.3	301.7	299.9	299.6
15°	340.8	337.2	328.4	317.3	306.6	299.1	294.1	292.9	292.9
17.5°	340.8	336.3	325.2	311.5	298.2	289.7	285.3	284.0	284.4
20°	336.7	331.9	318.5	301.7	287.1	278.2	273.8	272.9	273.3
22.5°	329.3	323.5	308.4	290.2	274.3	264.9	260.9	260.9	260.5
25°	319.5	313.2	296.9	277.8	260.5	251.2	248.0	248.5	248.5
27.5°	306.6	300.4	284.0	263.5	246.2	237.0	234.7	235.6	236.1
30°	290.6	284.0	266.7	246.7	230.7	221.4	220.1	221.4	221.8
32.5°	271.1	266.2	249.4	228.9	213.9	205.9	205.4	206.8	208.6
35°	250.7	245.3	229.8	211.2	197.0	190.4	190.4	192.6	193.9
37.5°	228.5	223.2	208.9	193.5	181.5	175.3	176.2	178.4	178.8
40°	205.0	201.0	189.0	175.7	165.5	160.6	161.9	164.2	164.6
42.5°	182.8	179.2	169.5	157.5	150.0	146.4	148.3	150.9	151.8
45°	162.8	158.9	150.9	140.7	134.5	132.7	134.9	136.6	137.5
47.5°	144.6	141.1	134.5	125.1	120.7	119.8	122.0	122.9	123.8
50°	128.7	125.1	118.4	110.1	106.4	106.4	108.3	109.2	108.7
52.5°	113.1	110.1	103.8	96.7	94.5	94.5	95.8	96.3	97.2
55°	100.2	97.2	91.9	85.2	83.4	82.5	83.4	83.4	84.3
57.5°	88.3	85.7	80.8	74.6	72.3	71.4	71.0	70.5	71.4
60°	77.6	75.5	70.1	64.7	63.1	60.8	59.0	57.3	57.6
62.5°	67.9	65.7	60.8	55.5	53.7	50.6	48.4	46.1	47.0
65°	58.5	56.4	51.9	47.5	44.9	41.2	37.7	36.4	37.3
67.5°	50.2	48.4	44.0	39.4	37.3	33.3	29.7	29.7	30.2
70°	41.7	39.9	36.4	32.4	29.7	26.2	24.9	25.3	25.3
72.5°	34.1	32.9	29.3	25.8	23.1	20.9	20.9	21.2	21.7
75°	27.1	26.2	22.6	19.5	17.7	16.4	17.3	17.7	18.2
77.5°	20.9	19.5	16.8	14.7	13.3	13.8	14.7	15.1	15.5
80°	14.7	14.2	12.0	10.6	10.2	10.6	11.5	12.0	12.0
82.5°	9.3	8.9	7.6	7.1	7.1	7.6	8.5	8.5	8.5
85°	4.9	4.4	4.0	4.0	4.4	4.9	5.3	5.3	5.3
87.5°	1.8	1.4	1.8	1.8	2.3	2.3	2.3	2.3	2.3
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)