

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: P582934

Luminaire Tested: **HC605D010-HM60525927-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582934  
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-HM60525927-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 518.8 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

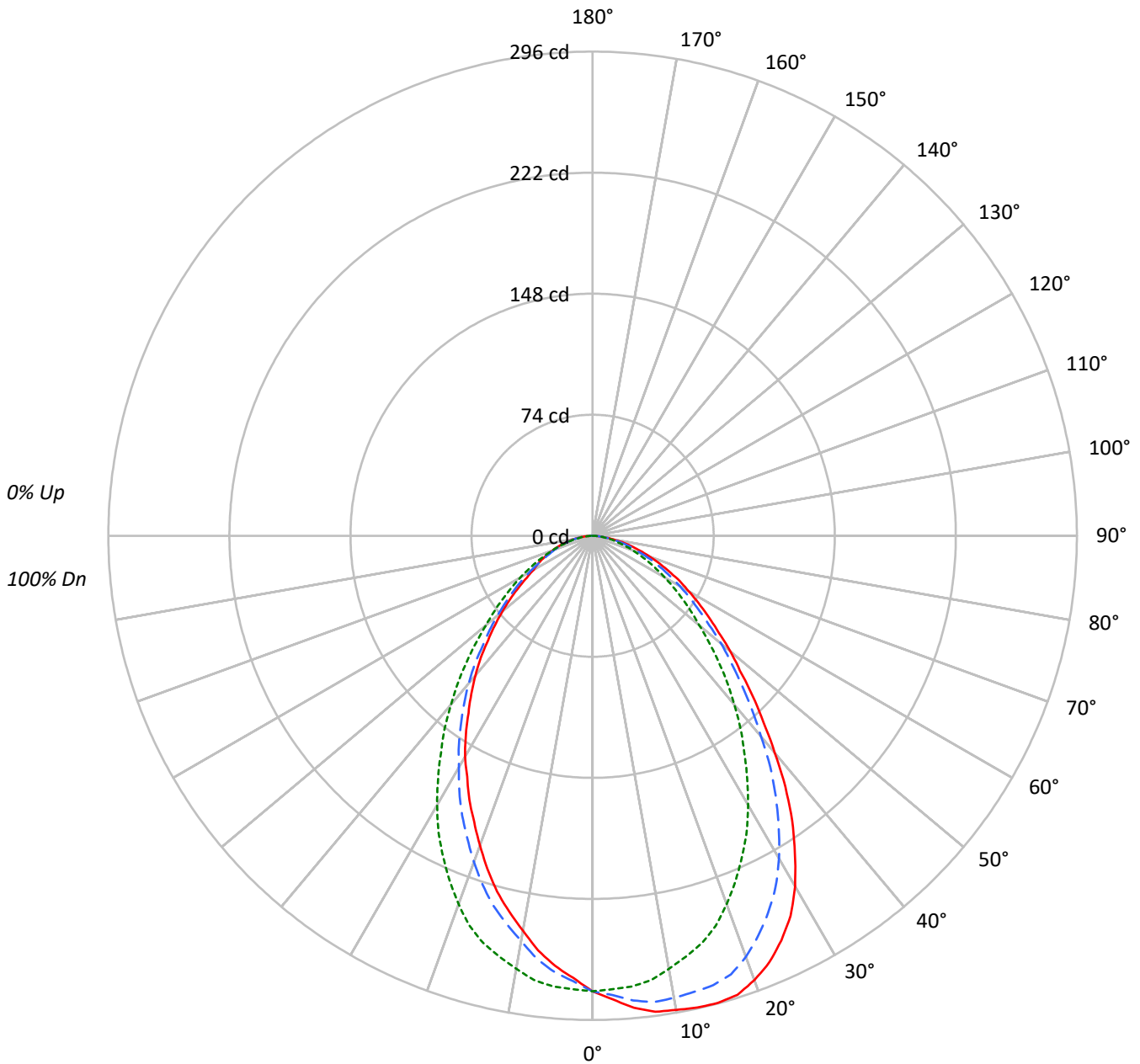
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	15267	15267	15267
5°	15942	15221	14522
10°	16382	14963	13649
15°	16782	14637	12787
20°	16866	13978	11744
25°	16507	13083	10773
30°	15661	12033	9869
35°	14228	10815	8854
40°	12395	9632	7965
45°	10722	8427	7001
50°	9364	7258	6141
55°	8277	6375	5266
60°	7434	5592	4561
65°	6654	4864	4423
70°	5947	4151	4151
75°	5168	3495	3897
80°	4136	2968	3567
85°	2830	2579	3082



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.2	5.0
10°-20°	72.8	14.0
20°-30°	101.4	19.5
30°-40°	104.5	20.1
40°-50°	86.6	16.7
50°-60°	62.2	12.0
60°-70°	39.6	7.6
70°-80°	20.4	3.9
80°-90°	5.2	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°	200.3	38.6
0°-40°	304.8	58.8
0°-60°	453.7	87.4
0°-90°	518.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	278	278	278	278	278	
5°	290	285	277	268	264	28
15°	296	284	258	234	225	83
25°	273	254	216	189	178	125
35°	213	195	162	140	132	132
45°	138	129	109	95	90	107
55°	87	79	67	59	55	78
65°	51	46	38	33	34	51
75°	24	21	16	17	18	26
85°	4	4	4	4	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°	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5	278.5
2.5°	283.7	282.6	281.1	279.7	277.4	274.8	272.6	271.8	270.6
5°	289.7	288.3	285.2	281.5	276.6	271.8	267.7	265.0	263.9
7.5°	293.5	291.7	287.5	281.1	274.0	266.9	260.9	257.2	255.6
10°	294.3	292.4	286.8	278.1	268.8	259.0	251.5	247.0	245.2
12.5°	295.4	292.8	285.7	275.5	263.5	252.3	243.0	237.3	235.4
15°	295.7	292.8	284.5	272.1	257.9	244.4	234.2	227.6	225.3
17.5°	294.3	290.9	281.1	266.1	250.1	235.8	223.7	216.6	213.7
20°	289.1	285.2	274.0	257.2	239.6	224.5	212.2	204.6	201.3
22.5°	282.3	277.4	264.6	246.7	228.3	212.6	200.1	192.7	189.3
25°	272.9	268.4	254.1	235.0	216.3	199.8	188.6	180.7	178.1
27.5°	262.0	256.7	242.2	223.1	204.0	187.5	176.5	169.4	166.1
30°	247.4	242.5	227.9	208.8	190.1	174.7	163.4	157.4	155.9
32.5°	230.2	226.0	211.8	193.8	175.8	161.6	152.2	145.8	144.3
35°	212.6	207.7	195.3	178.4	161.6	148.8	140.2	134.6	132.3
37.5°	193.5	188.9	178.4	163.4	148.5	136.5	128.9	124.1	121.8
40°	173.2	169.8	160.0	148.0	134.6	124.1	117.7	113.6	111.3
42.5°	154.5	151.1	144.3	133.1	121.8	112.4	106.8	103.1	101.2
45°	138.3	135.4	128.6	118.9	108.7	100.8	94.8	92.2	90.3
47.5°	122.2	120.7	114.7	105.7	96.4	89.6	85.4	82.5	81.0
50°	109.8	107.9	102.4	93.0	85.1	79.9	76.0	73.4	72.0
52.5°	97.1	95.3	89.9	82.0	75.7	70.9	67.1	64.9	63.4
55°	86.6	85.1	79.4	72.3	66.7	62.6	59.2	56.6	55.1
57.5°	76.8	75.4	70.1	63.4	58.5	54.7	51.8	49.5	47.6
60°	67.8	66.7	61.5	55.1	51.0	47.2	44.6	42.7	41.6
62.5°	60.0	57.7	53.2	47.6	43.8	40.9	38.2	37.1	37.9
65°	51.3	50.3	45.8	40.9	37.5	34.5	32.7	33.3	34.1
67.5°	44.2	42.7	39.0	34.5	31.5	29.3	28.1	29.6	29.9
70°	37.1	35.6	32.2	28.5	25.9	24.4	24.4	25.5	25.9
72.5°	30.4	29.3	26.2	23.3	21.4	20.2	21.0	21.7	22.1
75°	24.4	23.3	21.0	18.4	16.5	16.5	17.3	18.0	18.4
77.5°	18.8	18.0	15.7	13.9	13.1	13.1	13.9	14.2	14.6
80°	13.1	12.3	11.3	10.2	9.4	10.2	10.8	10.8	11.3
82.5°	8.6	8.2	7.5	6.8	6.8	7.1	7.5	7.9	7.9
85°	4.5	4.5	4.1	3.7	4.1	4.5	4.5	4.9	4.9
87.5°	1.5	1.5	1.5	1.5	1.9	1.9	1.9	1.9	1.9
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)