

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: P583376

Luminaire Tested: **HC607D010-HM60525930-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC607D010-HM60525930-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 807.1 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

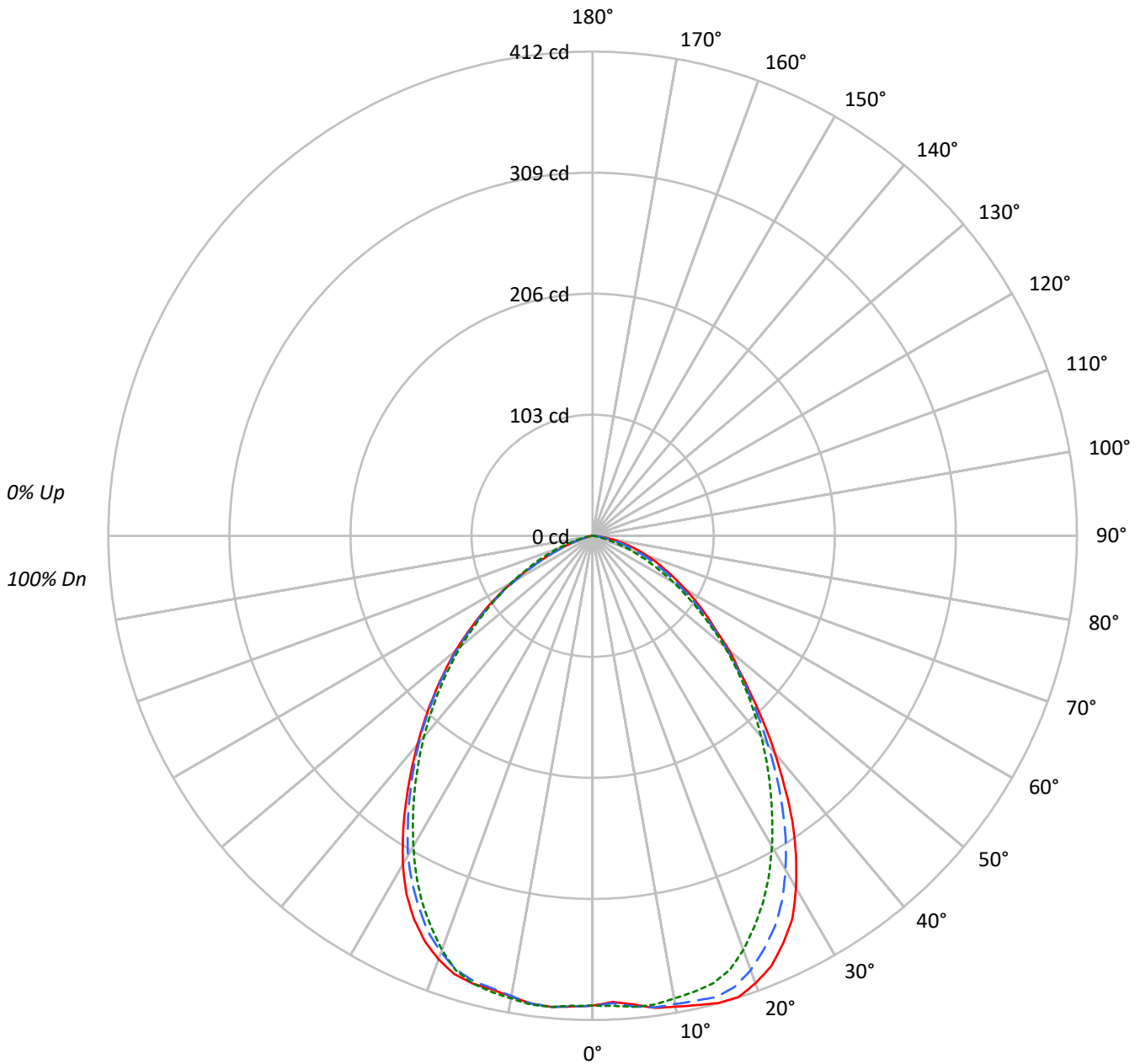
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	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	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	21917	21917	21917
5°	22028	22144	22144
10°	22650	22255	22161
15°	23366	22384	22384
20°	23639	21871	22373
25°	23167	20771	21757
30°	21908	19307	20440
35°	19829	17654	18524
40°	17254	15973	16588
45°	14738	14242	14738
50°	12938	12477	12989
55°	11288	10513	10924
60°	9977	8727	8607
65°	8847	6888	5902
70°	7806	4873	3558
75°	6651	2754	1737
80°	4956	852	505
85°	2705	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	4.8
10°-20°	112.2	13.9
20°-30°	163.9	20.3
30°-40°	171.9	21.3
40°-50°	144.8	17.9
50°-60°	101.4	12.6
60°-70°	54.4	6.7
70°-80°	18.2	2.3
80°-90°	2.0	0.2
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°	314.4	39.0
0°-40°	486.3	60.2
0°-60°	732.5	90.8
0°-90°	807.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	807.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	400	400	400	400	400	
5°	400	402	402	402	402	38
15°	412	406	394	392	394	116
25°	383	367	343	349	360	175
35°	296	281	264	271	277	184
45°	190	187	184	188	190	148
55°	118	114	110	112	114	106
65°	68	62	53	44	46	68
75°	31	24	13	8	8	33
85°	4	2	1	1	1	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°	399.8	399.8	399.8	399.8	399.8	399.8	399.8	399.8	399.8
2.5°	397.1	397.1	398.1	399.3	400.3	400.3	400.9	401.4	400.9
5°	400.3	400.3	402.0	402.4	402.4	402.0	402.4	402.4	402.4
7.5°	405.2	404.1	404.7	403.6	402.4	402.0	401.4	401.4	401.4
10°	406.9	405.7	404.7	402.4	399.8	398.1	397.6	398.1	398.1
12.5°	409.0	407.9	405.2	400.9	397.6	395.0	394.4	395.4	395.4
15°	411.7	410.6	406.3	399.3	394.4	391.7	392.2	393.3	394.4
17.5°	411.7	409.6	402.4	393.3	387.4	384.7	386.8	389.5	391.1
20°	405.2	403.0	393.3	381.9	374.9	373.2	377.1	381.9	383.5
22.5°	396.6	392.2	380.8	367.3	359.7	359.7	365.2	371.1	373.2
25°	383.0	379.8	366.8	351.0	343.4	343.0	349.4	357.6	359.7
27.5°	367.8	363.5	349.4	333.1	325.1	325.6	332.6	340.7	343.0
30°	346.1	340.7	328.2	312.6	305.0	307.2	314.2	320.2	322.9
32.5°	321.8	316.9	305.6	291.0	284.4	286.5	292.5	298.0	300.1
35°	296.3	291.0	281.1	268.2	263.8	266.0	271.4	275.8	276.8
37.5°	267.6	263.8	256.7	246.4	243.3	246.0	250.3	253.0	254.0
40°	241.1	237.8	231.8	224.2	223.2	225.4	229.7	231.4	231.8
42.5°	215.0	212.3	208.6	203.1	203.1	205.3	209.2	210.2	210.7
45°	190.1	188.5	186.9	182.5	183.7	186.4	188.5	190.1	190.1
47.5°	168.5	169.0	166.9	163.6	164.6	167.3	169.0	170.6	170.6
50°	151.7	150.0	147.9	144.7	146.3	148.4	150.6	151.7	152.3
52.5°	132.2	131.7	130.0	126.2	127.3	128.4	130.5	132.2	132.7
55°	118.1	116.5	114.3	110.0	110.0	111.0	112.2	113.2	114.3
57.5°	104.6	102.9	99.7	94.8	94.3	94.3	93.7	94.8	96.4
60°	91.0	90.4	85.5	81.2	79.6	78.0	75.8	76.4	78.5
62.5°	79.1	78.0	73.6	68.2	65.0	62.3	59.6	59.0	61.2
65°	68.2	67.2	62.3	56.9	53.1	48.3	43.8	43.8	45.5
67.5°	58.5	56.3	52.0	46.0	41.1	35.2	30.9	32.0	32.5
70°	48.7	47.1	42.3	36.3	30.4	24.4	21.6	22.2	22.2
72.5°	40.1	38.0	33.1	27.1	21.1	15.7	14.6	14.0	14.0
75°	31.4	29.2	24.4	18.5	13.0	9.2	8.2	8.2	8.2
77.5°	22.8	21.1	16.8	11.3	7.0	4.3	3.7	3.3	3.3
80°	15.7	14.0	10.3	6.0	2.7	1.6	1.6	1.6	1.6
82.5°	9.2	7.6	4.9	2.7	1.1	0.6	0.6	0.6	0.6
85°	4.3	3.3	2.2	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	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)