

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: P583413

Luminaire Tested: **HC607D010-HM60525940-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583413  
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: HC607D010-HM60525940-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 863.2 lumens  
Efficiency: N/A  
Efficacy: 107.9 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

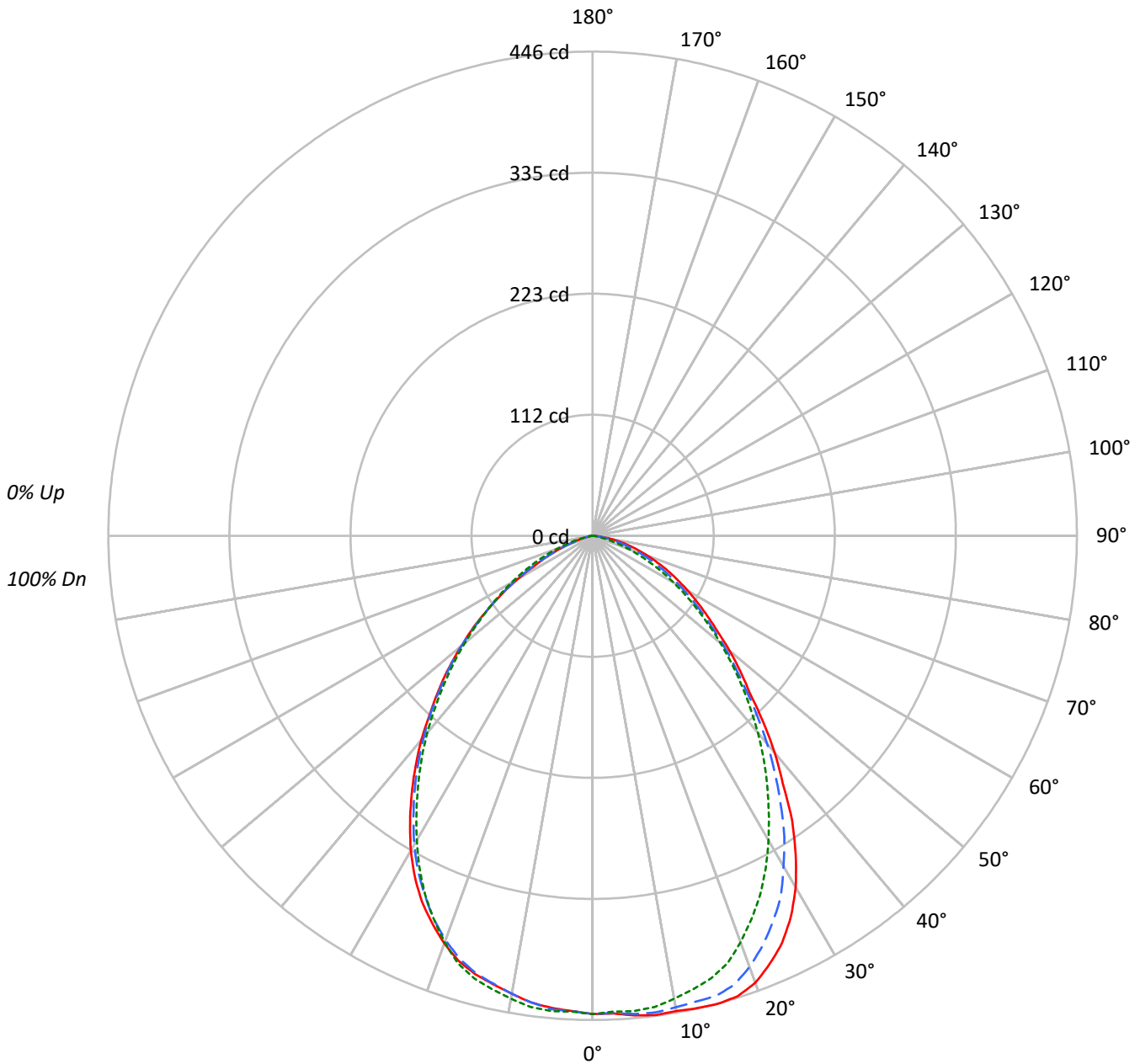
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	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	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	24148	24148	24148
5°	24406	24180	24020
10°	24749	24103	23847
15°	25329	23950	23723
20°	25564	23242	23306
25°	25005	22072	22495
30°	23681	20503	21199
35°	21442	18745	19434
40°	18671	16939	17561
45°	15847	14994	15529
50°	14029	13100	13441
55°	12358	11202	11144
60°	11085	9429	8673
65°	9897	7562	6213
70°	8703	5466	3879
75°	7350	3304	2203
80°	5651	1452	884
85°	3271	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	4.8
10°-20°	120.2	13.9
20°-30°	173.7	20.1
30°-40°	182.8	21.2
40°-50°	153.7	17.8
50°-60°	107.9	12.5
60°-70°	59.3	6.9
70°-80°	21.1	2.4
80°-90°	2.7	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°	335.7	38.9
0°-40°	518.5	60.1
0°-60°	780.1	90.4
0°-90°	863.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	440	440	440	440	440	
5°	444	442	439	438	436	42
15°	446	439	422	417	418	126
25°	413	393	365	366	372	189
35°	320	302	280	286	290	199
45°	204	199	193	198	200	160
55°	129	122	117	117	117	116
65°	76	68	58	48	48	76
75°	35	28	16	10	10	37
85°	5	3	1	1	1	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°	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5	440.5
2.5°	440.5	440.5	439.9	439.9	438.8	438.8	438.2	438.2	438.2
5°	443.5	443.5	442.2	440.5	439.4	437.7	437.1	437.1	436.5
7.5°	445.2	444.6	442.9	440.5	437.7	434.7	433.6	434.2	433.6
10°	444.6	443.5	441.1	436.5	433.0	429.0	428.4	427.8	428.4
12.5°	445.7	444.0	439.4	433.6	427.8	423.2	422.6	422.6	423.2
15°	446.3	444.6	438.8	430.1	422.0	417.4	416.8	417.4	418.0
17.5°	444.6	442.2	433.6	422.0	412.9	408.2	408.2	409.4	410.5
20°	438.2	434.7	422.6	408.8	398.4	395.0	396.1	398.4	399.5
22.5°	426.7	422.6	408.8	393.2	382.2	379.3	382.2	385.1	386.2
25°	413.4	408.8	392.6	376.5	364.9	361.4	365.5	370.0	371.9
27.5°	395.5	390.3	375.2	356.8	345.2	343.5	348.2	353.4	354.5
30°	374.1	368.3	351.6	334.3	323.9	323.4	328.6	333.1	334.9
32.5°	348.2	343.0	328.6	311.2	301.9	301.9	307.2	311.2	312.9
35°	320.4	314.6	301.9	287.6	280.1	280.6	285.7	288.7	290.4
37.5°	287.6	285.7	276.0	263.9	258.7	259.8	263.9	266.1	268.0
40°	260.9	256.4	250.1	240.2	236.7	237.9	241.9	244.3	245.4
42.5°	232.2	229.2	224.0	217.1	214.8	216.5	220.0	221.7	221.2
45°	204.4	203.8	198.6	194.5	193.4	195.8	198.0	199.7	200.3
47.5°	184.2	181.8	177.2	174.4	173.2	175.5	177.9	179.0	179.0
50°	164.5	162.2	157.6	154.8	153.6	155.9	157.6	158.7	157.6
52.5°	144.9	142.6	138.6	135.1	134.5	135.7	136.3	136.9	138.0
55°	129.3	127.0	122.4	118.4	117.2	117.8	117.2	117.2	116.6
57.5°	114.3	112.1	107.4	102.8	101.1	100.5	98.7	98.1	97.6
60°	101.1	98.1	93.6	88.4	86.0	83.7	80.8	79.1	79.1
62.5°	88.4	85.4	80.2	75.7	72.2	68.1	63.6	61.2	61.2
65°	76.3	73.9	68.1	62.9	58.3	53.1	47.9	46.8	47.9
67.5°	64.7	62.3	56.5	51.4	45.7	39.3	34.7	34.7	35.8
70°	54.3	52.0	46.8	40.4	34.1	27.8	24.2	24.2	24.2
72.5°	44.4	42.1	36.4	30.6	24.2	17.9	16.2	16.8	16.2
75°	34.7	32.9	27.8	21.4	15.6	11.0	10.4	9.9	10.4
77.5°	25.9	24.2	19.6	13.8	8.6	6.3	5.8	5.8	5.8
80°	17.9	16.2	12.7	8.0	4.6	2.8	2.8	2.8	2.8
82.5°	11.0	9.3	6.9	4.1	1.7	1.7	1.7	1.7	1.7
85°	5.2	4.1	2.8	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	1.1	0.6	0.6	0.0	0.6	0.6	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)