

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: P583412

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583412  
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-HM60525940-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 860.3 lumens  
Efficiency: N/A  
Efficacy: 107.5 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

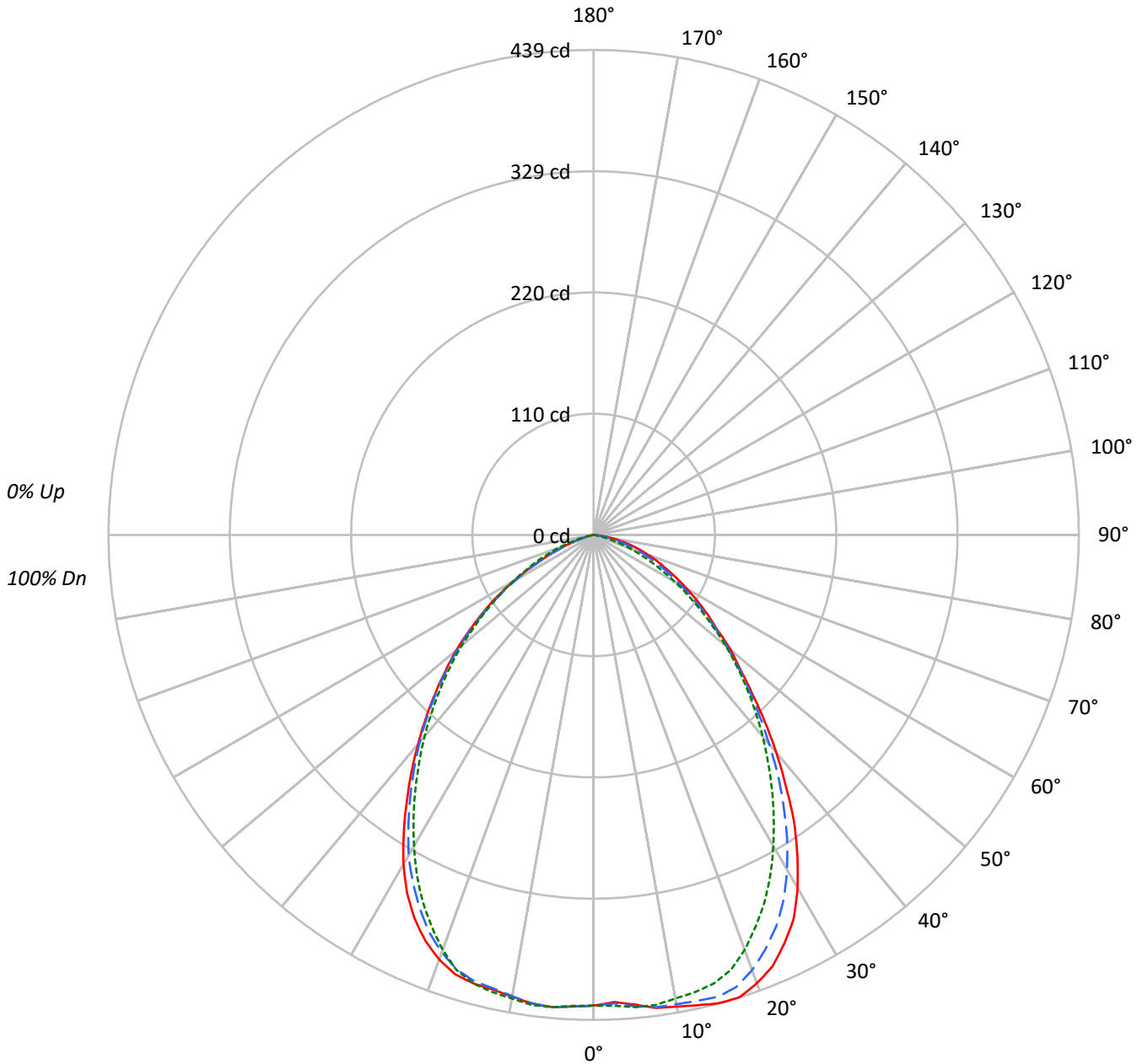
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	60																			
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°	23359	23359	23359
5°	23481	23613	23613
10°	24137	23719	23625
15°	24904	23854	23854
20°	25196	23312	23849
25°	24691	22144	23191
30°	23358	20579	21782
35°	21141	18819	19742
40°	18392	17025	17683
45°	15715	15180	15715
50°	13791	13296	13833
55°	12033	11211	11641
60°	10635	9308	9177
65°	9430	7329	6291
70°	8335	5177	3799
75°	7096	2923	1822
80°	5304	884	537
85°	2893	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.9	4.8
10°-20°	119.6	13.9
20°-30°	174.7	20.3
30°-40°	183.2	21.3
40°-50°	154.3	17.9
50°-60°	108.1	12.6
60°-70°	58.0	6.7
70°-80°	19.4	2.3
80°-90°	2.1	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°	335.1	39.0
0°-40°	518.3	60.2
0°-60°	780.8	90.8
0°-90°	860.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	860.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	426	426	426	426	426	
5°	427	428	429	429	429	41
15°	439	433	420	418	420	124
25°	408	391	366	372	383	187
35°	316	300	281	289	295	196
45°	203	199	196	201	203	158
55°	126	122	117	120	122	113
65°	73	66	56	47	48	73
75°	34	26	14	9	9	36
85°	5	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°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1
2.5°	423.3	423.3	424.4	425.6	426.7	426.7	427.3	427.8	427.3
5°	426.7	426.7	428.5	429.1	429.1	428.5	429.1	429.1	429.1
7.5°	431.9	430.8	431.3	430.2	429.1	428.5	427.8	427.8	427.8
10°	433.6	432.5	431.3	429.1	426.1	424.4	423.9	424.4	424.4
12.5°	436.0	434.8	431.9	427.3	423.9	420.9	420.3	421.5	421.5
15°	438.8	437.7	433.0	425.6	420.3	417.5	418.1	419.2	420.3
17.5°	438.8	436.5	429.1	419.2	412.9	409.9	412.3	415.1	416.9
20°	431.9	429.6	419.2	407.1	399.6	397.8	401.9	407.1	408.8
22.5°	422.7	418.1	406.0	391.5	383.4	383.4	389.2	395.5	397.8
25°	408.2	404.8	390.9	374.1	366.1	365.5	372.4	381.1	383.4
27.5°	392.0	387.5	372.4	355.1	346.5	347.0	354.5	363.2	365.5
30°	369.0	363.2	349.9	333.2	325.1	327.4	334.9	341.3	344.1
32.5°	343.0	337.7	325.6	310.1	303.2	305.5	311.8	317.6	319.8
35°	315.9	310.1	299.7	285.9	281.2	283.5	289.3	293.9	295.0
37.5°	285.3	281.2	273.7	262.7	259.2	262.2	266.8	269.7	270.8
40°	257.0	253.5	247.1	239.1	237.9	240.2	244.8	246.5	247.1
42.5°	229.2	226.4	222.3	216.5	216.5	218.9	222.9	224.0	224.7
45°	202.7	201.0	199.2	194.6	195.8	198.6	201.0	202.7	202.7
47.5°	179.6	180.1	177.9	174.4	175.5	178.4	180.1	181.8	181.8
50°	161.7	160.0	157.6	154.2	155.9	158.2	160.5	161.7	162.2
52.5°	140.9	140.3	138.6	134.5	135.7	136.9	139.1	140.9	141.5
55°	125.9	124.2	121.8	117.3	117.3	118.4	119.5	120.7	121.8
57.5°	111.5	109.7	106.3	101.1	100.5	100.5	99.9	101.1	102.8
60°	97.0	96.4	91.2	86.6	84.9	83.2	80.9	81.5	83.7
62.5°	84.3	83.2	78.5	72.7	69.3	66.4	63.6	63.0	65.3
65°	72.7	71.6	66.4	60.6	56.5	51.4	46.8	46.8	48.5
67.5°	62.3	60.0	55.4	49.1	43.8	37.5	32.9	34.1	34.7
70°	52.0	50.2	45.1	38.6	32.3	25.9	23.1	23.7	23.7
72.5°	42.7	40.4	35.2	28.9	22.5	16.8	15.6	15.1	15.1
75°	33.5	31.2	25.9	19.6	13.8	9.9	8.6	8.6	8.6
77.5°	24.2	22.5	17.9	12.1	7.5	4.6	4.1	3.5	3.5
80°	16.8	15.1	11.0	6.3	2.8	1.7	1.7	1.7	1.7
82.5°	9.9	8.0	5.2	2.8	1.1	0.6	0.6	0.6	0.6
85°	4.6	3.5	2.3	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)