

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: P583329

Luminaire Tested: **HC607D010-HM60525835-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC607D010-HM60525835-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 813.5 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

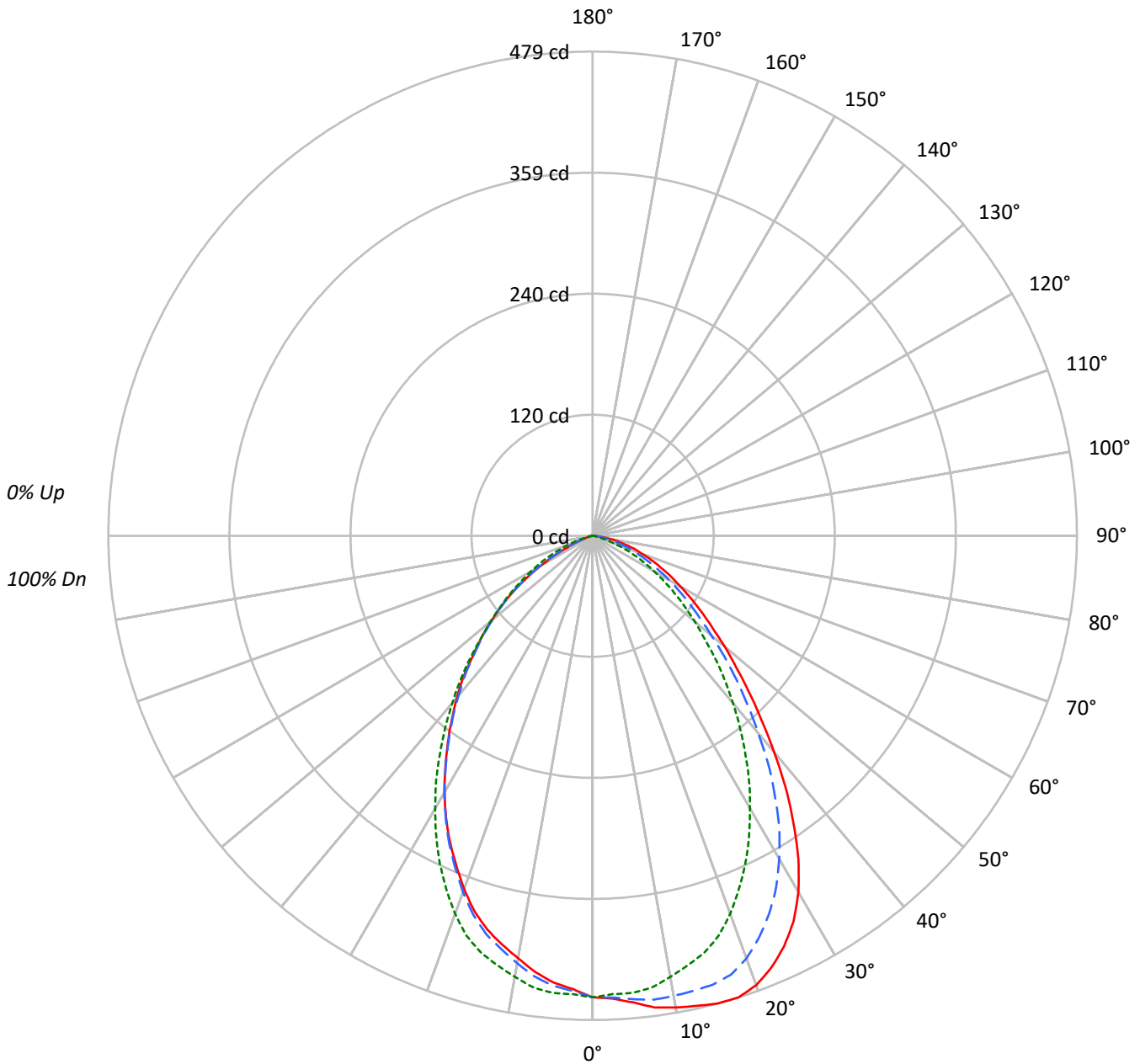
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

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

	0°	90°	180°
0°	25025	25025	25025
5°	25506	24978	24417
10°	26374	24660	23625
15°	27179	24228	22883
20°	27600	23219	21684
25°	27104	21630	20197
30°	25770	19706	18534
35°	23155	17614	16711
40°	19987	15436	14935
45°	16924	13288	12939
50°	14516	11232	11113
55°	12587	9452	9089
60°	10986	7675	6469
65°	9651	5902	3580
70°	8335	3911	1747
75°	7074	1906	678
80°	5462	821	379
85°	3208	440	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.1	5.3
10°-20°	121.8	15.0
20°-30°	171.5	21.1
30°-40°	175.3	21.5
40°-50°	141.3	17.4
50°-60°	94.8	11.7
60°-70°	48.0	5.9
70°-80°	15.3	1.9
80°-90°	2.4	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°	336.4	41.4
0°-40°	511.7	62.9
0°-60°	747.8	91.9
0°-90°	813.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	813.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	456	456	456	456	456	
5°	464	460	454	447	444	45
15°	479	460	427	408	403	135
25°	448	413	358	336	334	205
35°	346	315	263	248	250	215
45°	218	201	171	166	167	170
55°	132	117	99	94	95	118
65°	74	62	46	30	28	74
75°	33	24	9	3	3	36
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°	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5
2.5°	458.4	457.7	457.2	455.8	453.9	452.0	450.7	449.5	448.8
5°	463.5	462.3	460.3	457.7	453.9	449.5	446.9	444.2	443.7
7.5°	470.6	468.0	462.9	457.2	450.7	444.2	439.8	437.2	435.3
10°	473.8	469.3	462.3	452.6	443.0	435.3	429.5	425.7	424.4
12.5°	476.4	471.2	461.0	448.1	435.3	425.0	418.6	415.4	414.1
15°	478.9	473.8	459.7	443.0	426.9	414.8	407.7	404.5	403.2
17.5°	478.9	471.9	455.2	434.1	414.8	399.9	392.9	389.8	389.1
20°	473.1	465.4	444.9	419.9	398.0	381.4	374.9	373.0	371.7
22.5°	462.3	453.3	430.2	401.9	378.2	362.1	355.1	353.7	352.5
25°	448.1	439.2	412.9	382.6	357.6	341.6	335.8	334.5	333.9
27.5°	430.2	420.6	392.9	362.1	335.1	319.7	314.6	314.6	314.0
30°	407.1	396.1	369.1	338.3	311.3	297.3	293.4	293.4	292.8
32.5°	378.8	367.9	343.5	314.0	288.2	273.5	270.3	271.6	270.9
35°	346.0	337.1	314.6	285.7	263.2	249.7	248.5	249.7	249.7
37.5°	313.3	305.0	285.7	260.7	239.5	227.3	227.3	229.2	228.5
40°	279.3	272.8	254.9	233.1	215.7	207.3	206.1	208.0	208.7
42.5°	247.2	242.0	226.6	208.7	193.3	184.9	186.8	188.1	188.8
45°	218.3	213.1	201.0	182.3	171.4	165.6	165.6	167.6	166.9
47.5°	192.6	188.8	176.5	158.6	149.0	146.4	147.6	149.0	149.0
50°	170.2	164.4	152.8	138.7	131.7	128.4	129.7	130.3	130.3
52.5°	149.0	145.1	133.6	120.7	114.3	112.4	112.4	113.0	113.0
55°	131.7	127.1	116.8	104.0	98.9	96.3	94.4	93.7	95.1
57.5°	114.9	111.0	101.4	89.3	83.5	80.9	77.0	75.8	77.0
60°	100.2	97.0	87.4	75.8	70.0	64.8	60.4	57.8	59.0
62.5°	87.4	83.5	73.9	64.2	57.8	52.0	45.0	41.1	43.1
65°	74.4	71.3	61.6	52.0	45.5	38.5	30.1	27.6	27.6
67.5°	62.9	59.7	50.8	42.4	34.7	26.3	18.6	18.0	18.6
70°	52.0	48.8	41.1	32.7	24.4	16.1	10.9	10.9	10.9
72.5°	43.1	39.2	32.1	23.8	15.4	8.4	5.8	6.5	6.5
75°	33.4	30.1	23.8	16.1	9.0	3.9	3.2	3.2	3.2
77.5°	25.0	22.4	16.7	10.3	4.5	1.2	1.2	1.2	1.2
80°	17.3	14.7	10.9	6.5	2.6	1.2	1.2	1.2	1.2
82.5°	10.3	9.0	6.5	3.2	1.2	0.7	0.7	0.7	0.7
85°	5.1	4.5	2.6	1.2	0.7	0.7	0.7	0.7	0.7
87.5°	1.2	1.2	0.7	0.7	0.0	0.7	0.7	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)