

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: P583331

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC607D010-HM60525835-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 920.1 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

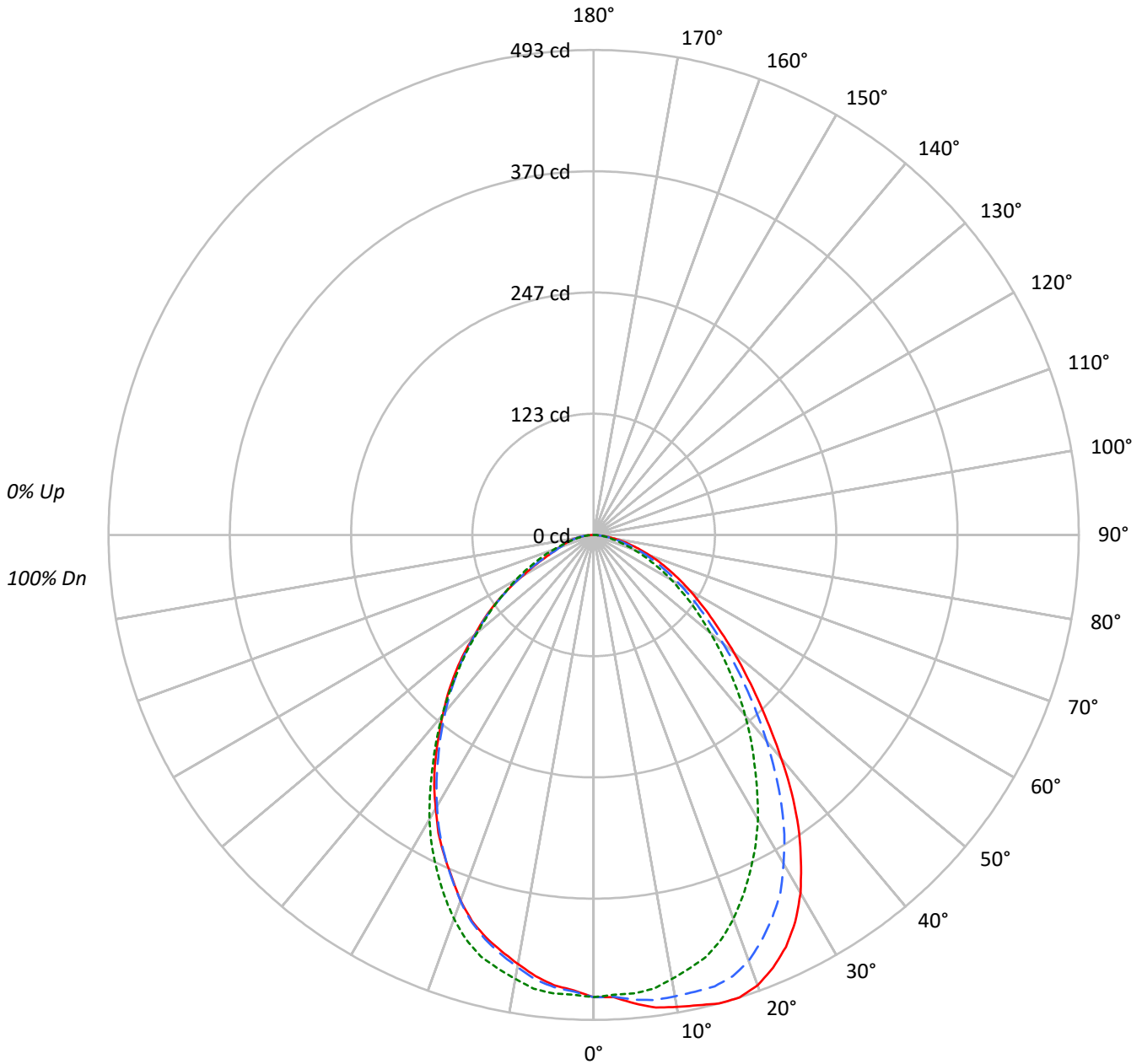
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

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

	0°	90°	180°
0°	25760	25760	25760
5°	26310	25748	25286
10°	27120	25512	24654
15°	27980	25170	24041
20°	28422	24222	23067
25°	27957	22786	21739
30°	26605	21130	20313
35°	24273	19066	18772
40°	21218	17132	17046
45°	18265	15071	15428
50°	15880	13142	13415
55°	13859	11536	11651
60°	12313	9988	9144
65°	10987	8406	6992
70°	9665	6908	5866
75°	8303	5443	5571
80°	6693	4641	5462
85°	4403	4088	4843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	4.8
10°-20°	126.6	13.8
20°-30°	180.8	19.6
30°-40°	189.4	20.6
40°-50°	159.4	17.3
50°-60°	113.5	12.3
60°-70°	66.4	7.2
70°-80°	31.4	3.4
80°-90°	8.1	0.9
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°	351.9	38.2
0°-40°	541.2	58.8
0°-60°	814.1	88.5
0°-90°	920.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	470	470	470	470	470	
5°	478	474	468	462	460	46
15°	493	475	444	426	424	139
25°	462	429	377	359	359	212
35°	363	332	285	275	280	225
45°	236	218	194	195	199	183
55°	145	133	121	121	122	131
65°	85	75	65	55	54	84
75°	39	33	26	25	26	42
85°	7	6	6	8	8	9
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°	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9
2.5°	470.4	470.4	469.9	469.2	467.9	466.0	464.6	463.4	463.4
5°	478.1	476.9	474.3	471.1	467.9	464.1	461.5	459.5	459.5
7.5°	484.6	482.0	476.9	471.1	465.3	460.2	455.7	453.1	452.5
10°	487.2	483.9	476.2	467.2	458.3	451.2	446.1	442.9	442.9
12.5°	489.7	485.8	475.6	462.7	451.2	441.5	436.4	433.8	433.3
15°	493.0	487.8	475.0	458.9	443.5	432.6	425.6	423.6	423.6
17.5°	493.0	486.5	470.4	450.6	431.3	419.1	412.6	410.7	411.4
20°	487.2	480.1	460.8	436.4	415.2	402.4	396.0	394.7	395.4
22.5°	476.2	467.9	446.1	419.8	396.7	383.2	377.4	377.4	376.7
25°	462.2	453.1	429.4	401.8	376.7	363.2	358.8	359.4	359.4
27.5°	443.5	434.5	410.7	381.3	356.2	342.7	339.6	340.8	341.5
30°	420.3	410.7	385.8	356.9	333.8	320.3	318.4	320.3	320.9
32.5°	392.1	385.1	360.7	331.2	309.3	297.8	297.2	299.1	301.6
35°	362.7	355.0	332.4	305.5	284.9	275.3	275.3	278.6	280.5
37.5°	330.5	322.8	302.3	279.9	262.5	253.6	254.8	258.0	258.7
40°	296.5	290.7	273.4	254.1	239.4	232.4	234.3	237.5	238.2
42.5°	264.4	259.3	245.2	227.8	217.0	211.8	214.4	218.2	219.5
45°	235.6	229.8	218.2	203.5	194.4	191.9	195.1	197.7	199.0
47.5°	209.3	204.1	194.4	180.9	174.6	173.3	176.5	177.8	179.0
50°	186.2	180.9	171.4	159.2	154.1	154.1	156.6	157.9	157.3
52.5°	163.7	159.2	150.2	139.9	136.8	136.8	138.7	139.2	140.6
55°	145.0	140.6	132.9	123.3	120.7	119.4	120.7	120.7	121.9
57.5°	127.7	123.8	116.8	107.9	104.6	103.3	102.6	102.1	103.3
60°	112.3	109.1	101.4	93.7	91.1	87.9	85.3	82.8	83.4
62.5°	98.2	94.9	87.9	80.2	77.6	73.2	69.9	66.7	68.0
65°	84.7	81.5	75.1	68.7	64.8	59.7	54.6	52.7	53.9
67.5°	72.5	69.9	63.6	57.1	53.9	48.2	43.1	43.1	43.6
70°	60.3	57.8	52.7	46.9	43.1	37.8	35.9	36.6	36.6
72.5°	49.4	47.5	42.4	37.3	33.4	30.1	30.1	30.8	31.5
75°	39.2	37.8	32.7	28.2	25.7	23.8	25.0	25.7	26.3
77.5°	30.1	28.2	24.4	21.2	19.3	19.9	21.2	21.9	22.4
80°	21.2	20.5	17.3	15.4	14.7	15.4	16.7	17.3	17.3
82.5°	13.5	12.8	10.9	10.3	10.3	10.9	12.2	12.2	12.2
85°	7.0	6.5	5.8	5.8	6.5	7.0	7.7	7.7	7.7
87.5°	2.6	1.9	2.6	2.6	3.2	3.2	3.2	3.2	3.2
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)