

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: P581637

Luminaire Tested: **HC610D010-HM60525927-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581637  
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: HC610D010-HM60525927-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 776.4 lumens  
Efficiency: N/A  
Efficacy: 78.4 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

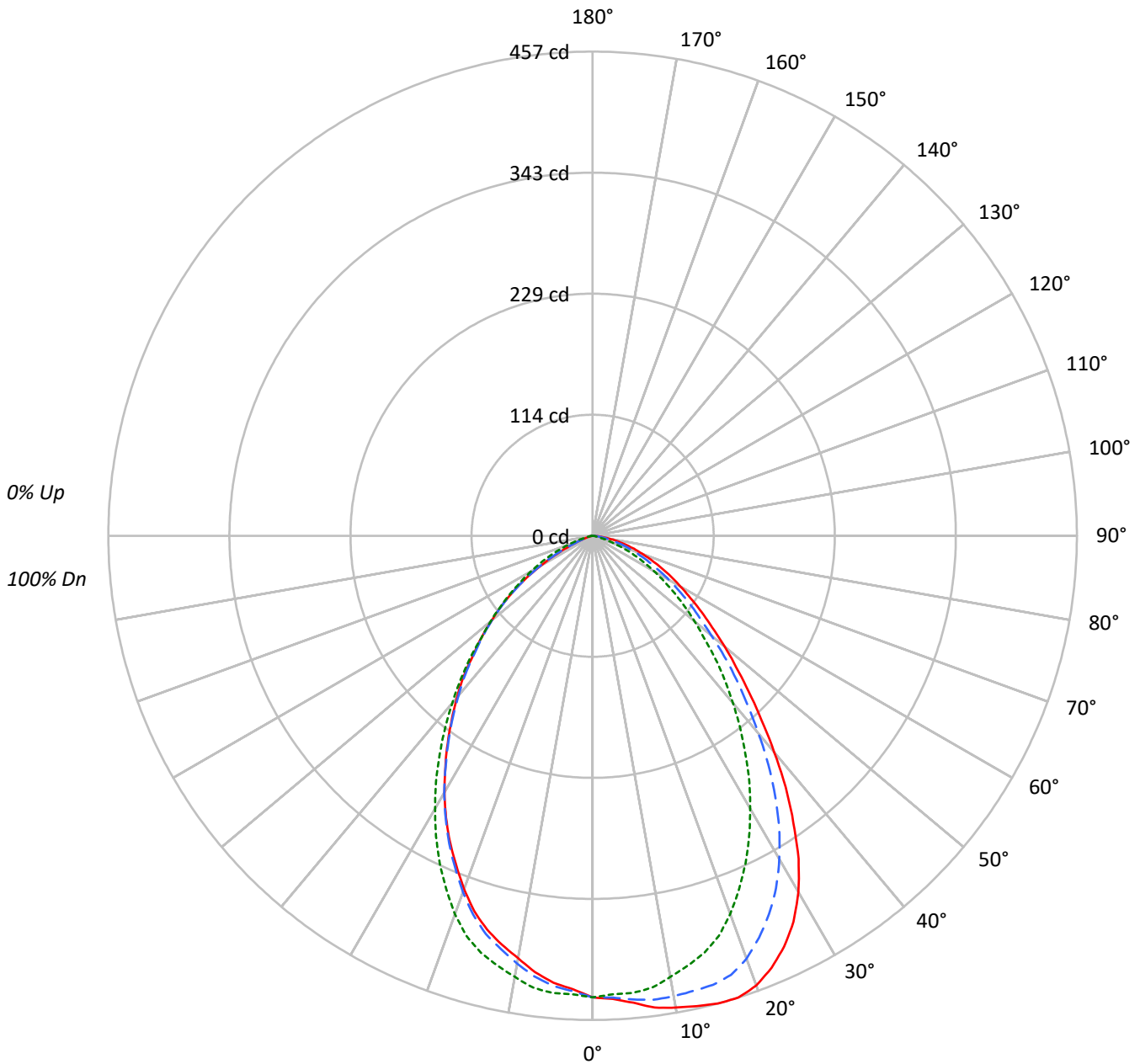
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	67	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°	23885	23885	23885
5°	24351	23839	23305
10°	25172	23536	22545
15°	25942	23127	21845
20°	26351	22163	20698
25°	25876	20644	19277
30°	24592	18819	17693
35°	22105	16818	15954
40°	19079	14735	14248
45°	16157	12683	12358
50°	13850	10720	10609
55°	12014	9022	8669
60°	10493	7324	6184
65°	9223	5643	3424
70°	7950	3735	1667
75°	6757	1822	657
80°	5209	789	379
85°	3082	377	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.1	5.3
10°-20°	116.3	15.0
20°-30°	163.7	21.1
30°-40°	167.3	21.5
40°-50°	134.9	17.4
50°-60°	90.5	11.7
60°-70°	45.8	5.9
70°-80°	14.6	1.9
80°-90°	2.2	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°	321.1	41.4
0°-40°	488.4	62.9
0°-60°	713.8	91.9
0°-90°	776.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	436	436	436	436	436	
5°	442	439	433	426	424	43
15°	457	439	408	389	385	129
25°	428	394	341	320	319	196
35°	330	300	251	237	238	206
45°	208	192	164	158	159	162
55°	126	112	94	90	91	113
65°	71	59	44	29	26	71
75°	32	23	9	3	3	34
85°	5	2	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°	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7
2.5°	437.5	437.0	436.3	435.1	433.2	431.4	430.2	428.9	428.3
5°	442.5	441.3	439.4	437.0	433.2	428.9	426.5	424.0	423.5
7.5°	449.2	446.7	441.8	436.3	430.2	424.0	419.7	417.4	415.4
10°	452.2	447.9	441.3	432.1	422.8	415.4	410.0	406.3	405.0
12.5°	454.7	449.9	440.0	427.8	415.4	405.7	399.6	396.5	395.3
15°	457.1	452.2	438.8	422.8	407.5	395.9	389.2	386.1	384.9
17.5°	457.1	450.4	434.5	414.3	395.9	381.8	375.0	372.0	371.4
20°	451.7	444.3	424.7	400.7	379.9	364.1	357.9	356.0	354.8
22.5°	441.3	432.7	410.6	383.6	361.0	345.6	338.9	337.7	336.4
25°	427.8	419.2	394.0	365.2	341.3	326.0	320.5	319.2	318.7
27.5°	410.6	401.4	375.0	345.6	319.9	305.2	300.3	300.3	299.6
30°	388.5	378.1	352.4	323.0	297.3	283.7	280.1	280.1	279.5
32.5°	361.6	351.1	327.8	299.6	275.2	261.0	258.0	259.2	258.7
35°	330.3	321.7	300.3	272.7	251.3	238.4	237.2	238.4	238.4
37.5°	299.1	291.0	272.7	248.8	228.6	216.9	216.9	218.8	218.1
40°	266.6	260.5	243.3	222.4	205.9	198.0	196.7	198.6	199.1
42.5°	235.9	231.0	216.3	199.1	184.4	176.5	178.3	179.5	180.2
45°	208.4	203.4	191.8	174.0	163.6	158.1	158.1	160.0	159.4
47.5°	183.8	180.2	168.6	151.3	142.2	139.7	140.9	142.2	142.2
50°	162.4	156.9	145.8	132.3	125.7	122.6	123.8	124.4	124.4
52.5°	142.2	138.4	127.5	115.2	109.1	107.2	107.2	107.9	107.9
55°	125.7	121.4	111.5	99.3	94.4	91.9	90.1	89.4	90.7
57.5°	109.7	106.1	96.8	85.1	79.7	77.2	73.6	72.3	73.6
60°	95.7	92.5	83.3	72.3	66.8	61.9	57.6	55.1	56.4
62.5°	83.3	79.7	70.5	61.2	55.1	49.6	42.9	39.2	41.1
65°	71.1	68.0	58.9	49.6	43.5	36.8	28.8	26.4	26.4
67.5°	60.1	56.9	48.4	40.4	33.1	25.1	17.8	17.2	17.8
70°	49.6	46.5	39.2	31.2	23.3	15.3	10.4	10.4	10.4
72.5°	41.1	37.4	30.7	22.6	14.7	7.9	5.5	6.1	6.1
75°	31.9	28.8	22.6	15.3	8.6	3.6	3.1	3.1	3.1
77.5°	23.9	21.4	16.0	9.8	4.3	1.2	1.2	1.2	1.2
80°	16.5	14.2	10.4	6.1	2.5	1.2	1.2	1.2	1.2
82.5°	9.8	8.6	6.1	3.1	1.2	0.6	0.6	0.6	0.6
85°	4.9	4.3	2.5	1.2	0.6	0.6	0.6	0.6	0.6
87.5°	1.2	1.2	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)