

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: P581583

Luminaire Tested: **HC610D010-HM60525830-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581583  
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-HM60525830-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 988.8 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

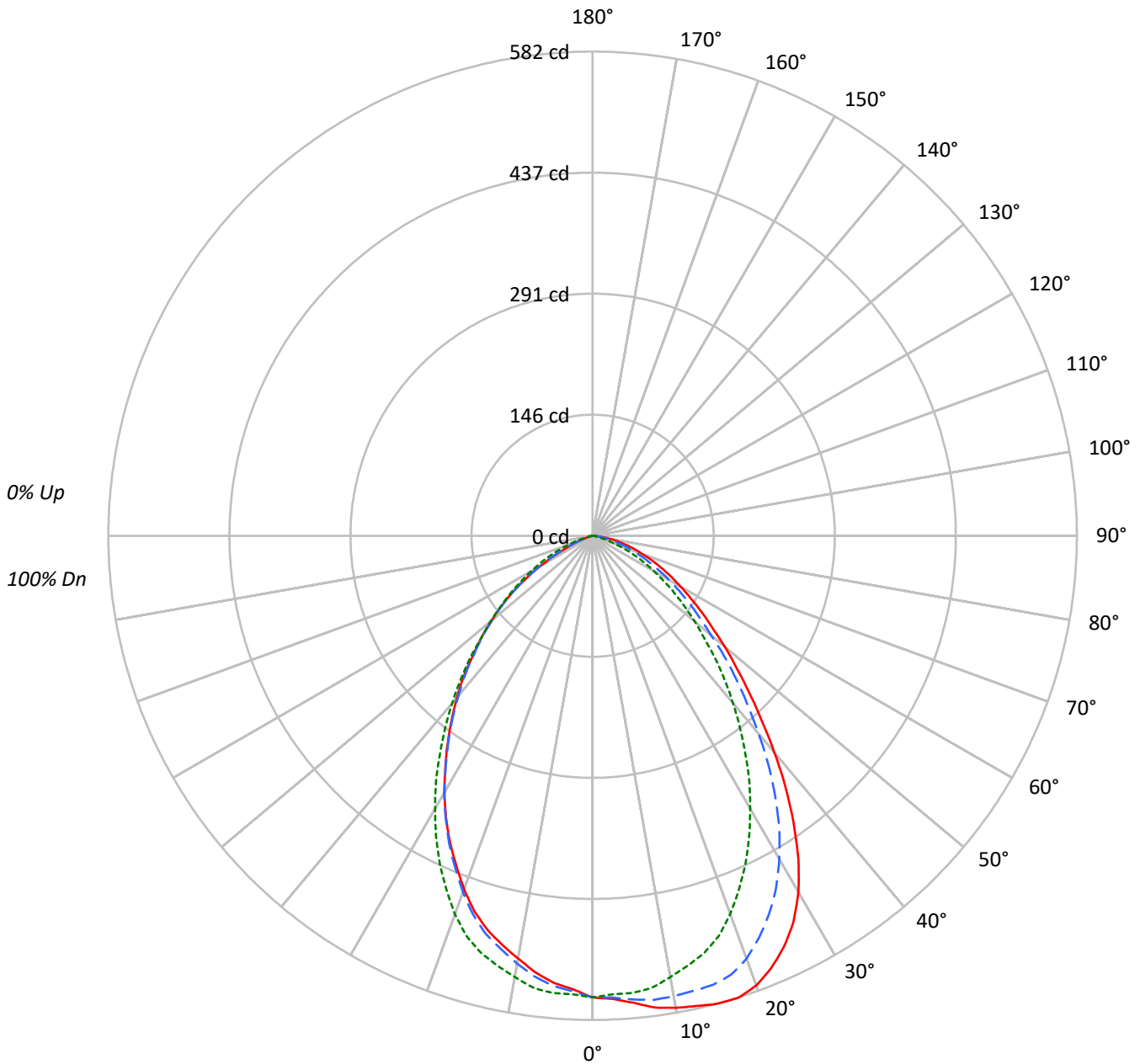
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	30420	30420	30420
5°	31009	30360	29677
10°	32064	29976	28718
15°	33042	29455	27809
20°	33556	28224	26363
25°	32947	26294	24546
30°	31321	23959	22529
35°	28155	21415	20318
40°	24296	18764	18155
45°	20568	16157	15730
50°	17637	13646	13509
55°	15292	11488	11039
60°	13343	9319	7872
65°	11752	7186	4345
70°	10130	4760	2116
75°	8578	2330	805
80°	6661	1010	505
85°	3900	503	503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.4	5.3
10°-20°	148.1	15.0
20°-30°	208.5	21.1
30°-40°	213.0	21.5
40°-50°	171.8	17.4
50°-60°	115.2	11.7
60°-70°	58.3	5.9
70°-80°	18.6	1.9
80°-90°	2.9	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°	409.0	41.4
0°-40°	622.0	62.9
0°-60°	909.0	91.9
0°-90°	988.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	988.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	555	555	555	555	555	
5°	564	560	552	543	539	54
15°	582	559	519	496	490	164
25°	545	502	435	408	406	249
35°	421	382	320	302	304	262
45°	265	244	208	201	203	206
55°	160	142	120	115	116	144
65°	91	75	55	37	34	90
75°	40	29	11	4	4	44
85°	6	3	1	1	1	8
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°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9
2.5°	557.2	556.4	555.7	554.1	551.7	549.4	547.9	546.3	545.5
5°	563.5	561.9	559.5	556.4	551.7	546.3	543.1	540.1	539.3
7.5°	572.0	568.9	562.7	555.7	547.9	540.1	534.5	531.5	529.1
10°	576.0	570.5	561.9	550.2	538.5	529.1	522.1	517.4	515.9
12.5°	579.0	572.8	560.3	544.7	529.1	516.6	508.8	504.9	503.4
15°	582.2	576.0	558.8	538.5	519.0	504.2	495.6	491.6	490.0
17.5°	582.2	573.6	553.3	527.5	504.2	486.2	477.6	473.7	472.9
20°	575.2	565.8	540.9	510.4	483.8	463.6	455.7	453.4	451.9
22.5°	561.9	550.9	522.9	488.6	459.7	440.1	431.5	430.0	428.5
25°	544.7	533.9	501.8	465.1	434.7	415.2	408.2	406.6	405.8
27.5°	522.9	511.2	477.6	440.1	407.4	388.6	382.4	382.4	381.6
30°	494.8	481.6	448.7	411.3	378.5	361.3	356.7	356.7	355.9
32.5°	460.4	447.1	417.5	381.6	350.4	332.5	328.5	330.1	329.3
35°	420.7	409.7	382.4	347.3	320.0	303.6	302.0	303.6	303.6
37.5°	380.8	370.7	347.3	316.8	291.0	276.2	276.2	278.6	277.8
40°	339.5	331.7	309.8	283.3	262.2	252.1	250.5	252.9	253.7
42.5°	300.4	294.2	275.5	253.7	234.9	224.7	227.1	228.7	229.5
45°	265.3	259.1	244.3	221.6	208.4	201.4	201.4	203.6	202.9
47.5°	234.1	229.5	214.6	192.8	181.0	178.0	179.5	181.0	181.0
50°	206.8	199.8	185.8	168.6	160.0	156.1	157.7	158.4	158.4
52.5°	181.0	176.4	162.3	146.7	138.9	136.5	136.5	137.3	137.3
55°	160.0	154.5	142.1	126.4	120.2	117.0	114.7	114.0	115.5
57.5°	139.7	135.0	123.3	108.4	101.4	98.4	93.6	92.0	93.6
60°	121.7	117.8	106.2	92.0	85.0	78.8	73.4	70.2	71.8
62.5°	106.2	101.4	89.8	78.0	70.2	63.2	54.7	49.9	52.3
65°	90.6	86.6	74.9	63.2	55.4	46.9	36.7	33.5	33.5
67.5°	76.5	72.6	61.7	51.5	42.1	32.0	22.6	21.8	22.6
70°	63.2	59.3	49.9	39.8	29.7	19.5	13.2	13.2	13.2
72.5°	52.3	47.7	39.1	28.9	18.7	10.2	7.0	7.8	7.8
75°	40.5	36.7	28.9	19.5	11.0	4.6	3.8	3.8	3.8
77.5°	30.5	27.3	20.3	12.5	5.4	1.6	1.6	1.6	1.6
80°	21.1	18.0	13.2	7.8	3.2	1.6	1.6	1.6	1.6
82.5°	12.5	11.0	7.8	3.8	1.6	0.8	0.8	0.8	0.8
85°	6.2	5.4	3.2	1.6	0.8	0.8	0.8	0.8	0.8
87.5°	1.6	1.6	0.8	0.8	0.0	0.8	0.8	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)