

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: P581971

Luminaire Tested: **HC620D010-HM60525940-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581971  
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: HC620D010-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: 1960.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

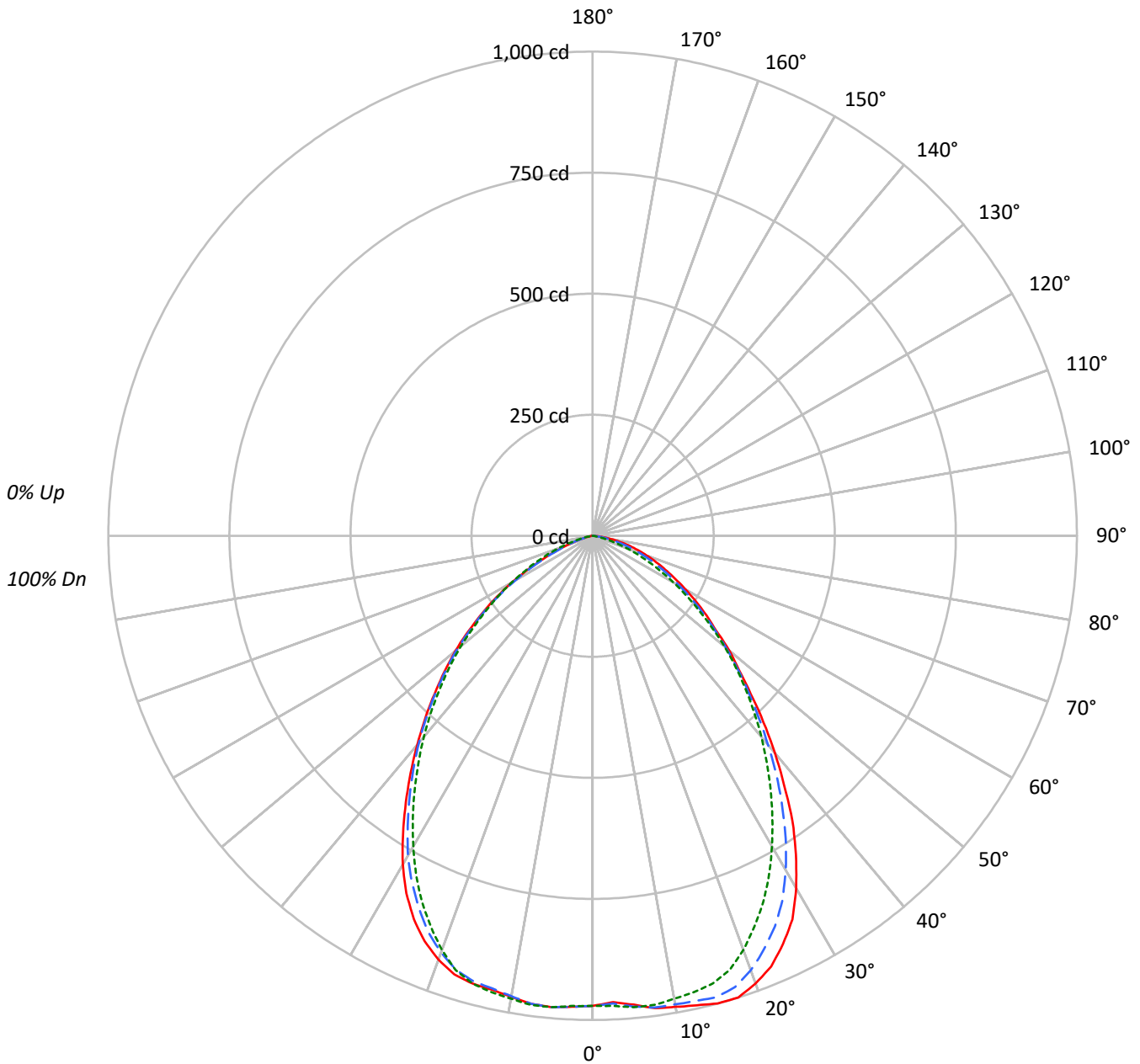
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	53225	53225	53225
5°	53494	53786	53786
10°	54992	54046	53823
15°	56743	54348	54348
20°	57405	53105	54331
25°	56259	50446	52830
30°	53211	46881	49628
35°	48158	42871	44986
40°	41893	38787	40290
45°	35794	34569	35794
50°	31410	30293	31530
55°	27411	25519	26532
60°	24231	21204	20919
65°	21507	16720	14334
70°	18978	11797	8639
75°	16161	6693	4173
80°	12060	2084	1263
85°	6604	881	881



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	4.8
10°-20°	272.5	13.9
20°-30°	397.9	20.3
30°-40°	417.3	21.3
40°-50°	351.6	17.9
50°-60°	246.3	12.6
60°-70°	132.1	6.7
70°-80°	44.3	2.3
80°-90°	4.9	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°	763.5	39.0
0°-40°	1180.8	60.2
0°-60°	1778.8	90.8
0°-90°	1960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	971	971	971	971	971	
5°	972	976	977	977	977	93
15°	1000	987	958	952	958	282
25°	930	890	834	848	873	426
35°	720	683	641	659	672	447
45°	462	454	446	458	462	360
55°	287	278	267	272	278	258
65°	166	151	129	106	110	166
75°	76	59	32	20	20	81
85°	10	5	1	1	1	14
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°	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9
2.5°	964.2	964.2	966.9	969.5	972.1	972.1	973.5	974.7	973.5
5°	972.1	972.1	976.1	977.4	977.4	976.1	977.4	977.4	977.4
7.5°	984.0	981.3	982.7	980.0	977.4	976.1	974.7	974.7	974.7
10°	987.9	985.3	982.7	977.4	970.9	966.9	965.5	966.9	966.9
12.5°	993.2	990.6	984.0	973.5	965.5	959.0	957.6	960.3	960.3
15°	999.8	997.2	986.6	969.5	957.6	951.0	952.4	955.0	957.6
17.5°	999.8	994.5	977.4	955.0	940.5	933.9	939.3	945.8	949.8
20°	984.0	978.7	955.0	927.4	910.3	906.4	915.6	927.4	931.3
22.5°	962.9	952.4	924.8	891.9	873.4	873.4	886.6	901.1	906.4
25°	930.1	922.1	890.5	852.5	834.0	832.6	848.5	868.2	873.4
27.5°	893.3	882.7	848.5	809.0	789.2	790.6	807.7	827.4	832.6
30°	840.6	827.4	797.2	759.0	740.6	745.9	763.0	777.5	784.0
32.5°	781.4	769.5	741.9	706.4	690.7	695.9	710.4	723.5	728.7
35°	719.6	706.4	682.7	651.1	640.6	645.9	659.1	669.6	672.2
37.5°	649.9	640.6	623.5	598.6	590.6	597.2	607.7	614.3	616.9
40°	585.4	577.5	563.0	544.6	542.0	547.2	557.8	561.7	563.0
42.5°	522.2	515.6	506.5	493.3	493.3	498.5	507.8	510.4	511.7
45°	461.7	457.7	453.9	443.3	445.9	452.5	457.7	461.7	461.7
47.5°	409.1	410.4	405.2	397.2	399.9	406.5	410.4	414.3	414.3
50°	368.3	364.4	359.2	351.2	355.2	360.4	365.7	368.3	369.7
52.5°	321.0	319.6	315.8	306.5	309.1	311.8	317.0	321.0	322.3
55°	286.8	282.8	277.6	267.0	267.0	269.7	272.3	275.0	277.6
57.5°	253.9	249.9	242.0	230.2	228.9	228.9	227.6	230.2	234.2
60°	221.0	219.7	207.8	197.4	193.4	189.4	184.1	185.5	190.8
62.5°	192.0	189.4	178.9	165.8	157.8	151.3	144.7	143.4	148.6
65°	165.8	163.2	151.3	138.1	128.9	117.0	106.5	106.5	110.5
67.5°	142.1	136.8	126.3	111.8	99.9	85.5	75.0	77.6	79.0
70°	118.4	114.4	102.6	88.1	73.6	59.1	52.6	53.9	53.9
72.5°	97.3	92.1	80.2	65.8	51.3	38.2	35.5	34.2	34.2
75°	76.3	71.0	59.1	44.8	31.6	22.3	19.7	19.7	19.7
77.5°	55.3	51.3	40.8	27.6	17.1	10.5	9.2	7.9	7.9
80°	38.2	34.2	25.0	14.5	6.6	4.0	4.0	4.0	4.0
82.5°	22.3	18.5	11.8	6.6	2.6	1.4	1.4	1.4	1.4
85°	10.5	7.9	5.2	2.6	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	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)