

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: P581954

Luminaire Tested: **HC620D010-HM60525935-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC620D010-HM60525935-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1942.2 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

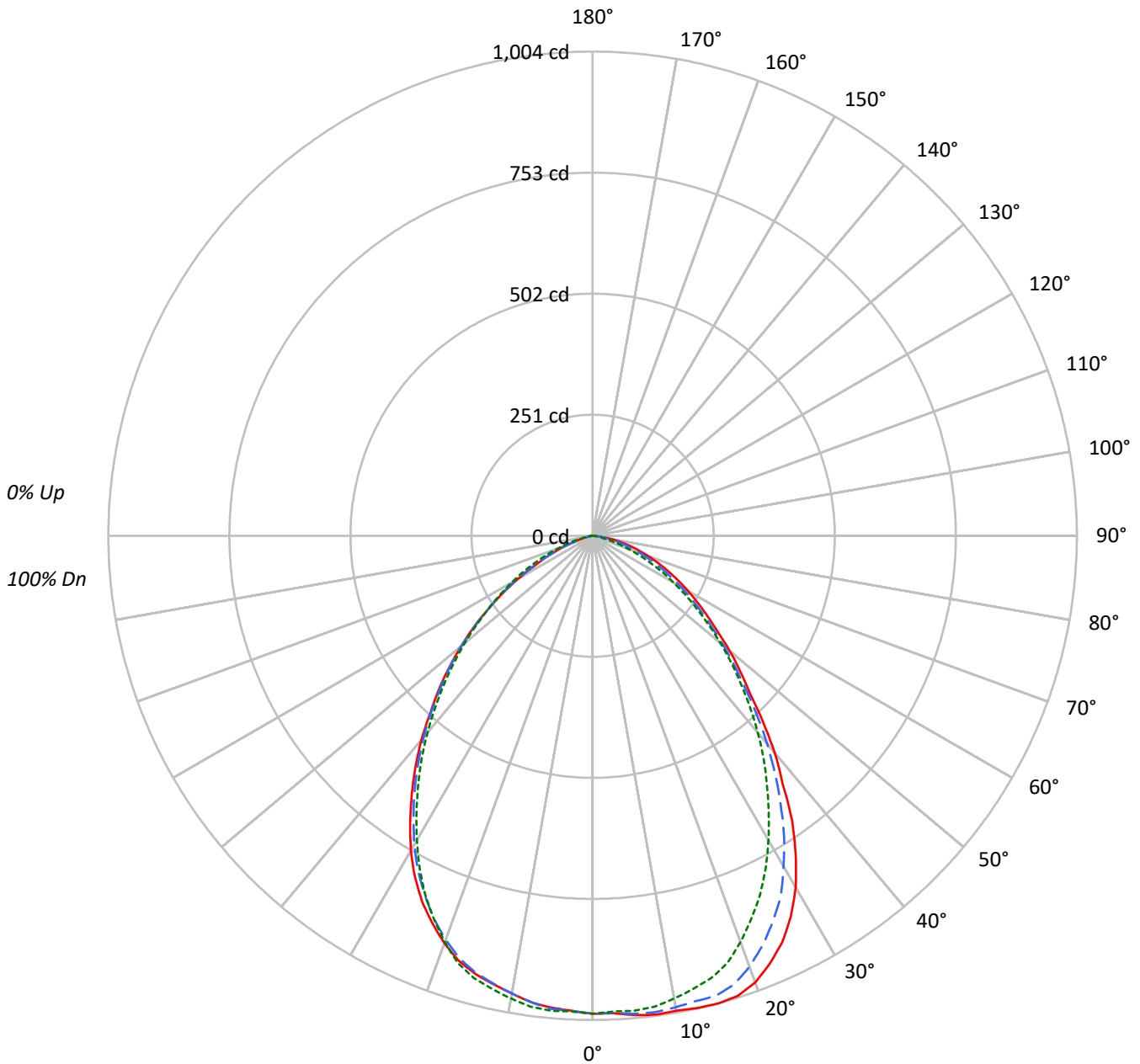
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	93	92	90	88			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			
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	61	55	50	60	54	49	58	53	49	47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	54332	54332	54332
5°	54903	54397	54045
10°	55683	54235	53662
15°	56992	53894	53377
20°	57516	52289	52440
25°	56259	49660	50604
30°	53287	46127	47691
35°	48245	42168	43728
40°	42014	38114	39510
45°	35655	33740	34949
50°	31581	29475	30242
55°	27813	25213	25079
60°	24921	21215	19516
65°	22233	17019	13996
70°	19571	12278	8751
75°	16521	7434	4935
80°	12691	3283	2052
85°	7359	755	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	4.8
10°-20°	270.4	13.9
20°-30°	390.9	20.1
30°-40°	411.3	21.2
40°-50°	345.8	17.8
50°-60°	242.7	12.5
60°-70°	133.5	6.9
70°-80°	47.4	2.4
80°-90°	6.2	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°	755.4	38.9
0°-40°	1166.7	60.1
0°-60°	1755.1	90.4
0°-90°	1942.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	991	991	991	991	991	
5°	998	995	988	985	982	95
15°	1004	987	950	938	940	283
25°	930	883	821	822	837	426
35°	721	680	630	643	653	447
45°	460	447	435	446	451	361
55°	291	275	264	264	262	262
65°	171	153	131	108	108	171
75°	78	62	35	23	23	84
85°	12	6	1	1	1	16
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°	991.1	991.1	991.1	991.1	991.1	991.1	991.1	991.1	991.1
2.5°	991.1	991.1	989.9	989.9	987.3	987.3	985.9	985.9	985.9
5°	997.7	997.7	995.1	991.1	988.5	984.7	984.7	983.4	982.1
7.5°	1001.6	1000.3	996.4	991.1	984.7	978.2	975.6	976.9	975.6
10°	1000.3	997.7	992.5	982.1	974.3	965.2	964.0	962.6	964.0
12.5°	1002.9	999.0	988.5	975.6	962.6	952.2	950.9	950.9	952.2
15°	1004.2	1000.3	987.3	967.8	949.6	939.3	937.9	939.3	940.5
17.5°	1000.3	995.1	975.6	949.6	928.8	918.4	918.4	921.0	923.6
20°	985.9	978.2	950.9	919.8	896.3	888.6	891.1	896.3	898.9
22.5°	960.0	950.9	919.8	884.6	859.9	853.5	859.9	866.5	869.1
25°	930.1	919.8	883.4	847.0	821.0	813.3	822.3	832.6	836.6
27.5°	889.9	878.2	844.4	802.8	776.8	772.9	783.4	795.0	797.6
30°	841.8	828.8	791.2	752.2	728.7	727.5	739.2	749.6	753.4
32.5°	783.4	771.7	739.2	700.2	679.5	679.5	691.1	700.2	704.0
35°	720.9	708.0	679.5	646.9	630.1	631.3	643.1	649.5	653.4
37.5°	646.9	643.1	621.0	593.7	582.0	584.6	593.7	598.9	602.8
40°	587.1	576.8	562.5	540.4	532.6	535.2	544.3	549.5	552.1
42.5°	522.2	515.7	504.1	488.4	483.2	487.2	494.9	498.9	497.5
45°	459.9	458.5	446.9	437.8	435.2	440.4	445.6	449.5	450.8
47.5°	414.5	409.2	398.8	392.4	389.8	395.0	400.1	402.7	402.7
50°	370.3	365.1	354.6	348.2	345.6	350.8	354.6	357.2	354.6
52.5°	326.1	320.9	311.8	304.0	302.7	305.2	306.6	307.8	310.4
55°	291.0	285.7	275.4	266.3	263.8	265.0	263.8	263.8	262.4
57.5°	257.2	252.0	241.7	231.2	227.3	226.0	222.2	220.8	219.6
60°	227.3	220.8	210.4	198.7	193.5	188.4	181.8	178.0	178.0
62.5°	198.7	192.3	180.6	170.2	162.4	153.3	142.9	137.7	137.7
65°	171.4	166.3	153.3	141.6	131.2	119.5	107.9	105.3	107.9
67.5°	145.5	140.3	127.3	115.6	102.6	88.4	78.0	78.0	80.6
70°	122.1	116.9	105.3	91.0	76.6	62.3	54.6	54.6	54.6
72.5°	100.0	94.8	81.8	68.9	54.6	40.2	36.4	37.7	36.4
75°	78.0	74.1	62.3	48.0	35.1	24.7	23.3	22.1	23.3
77.5°	58.5	54.6	44.2	31.2	19.5	14.3	13.0	13.0	13.0
80°	40.2	36.4	28.6	18.2	10.4	6.5	6.5	6.5	6.5
82.5°	24.7	20.7	15.6	9.1	3.9	3.9	3.9	3.9	3.9
85°	11.7	9.1	6.5	2.6	1.2	1.2	1.2	1.2	1.2
87.5°	2.6	2.6	1.2	1.2	0.0	1.2	1.2	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)