

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: P581872

Luminaire Tested: **HC620D010-HM60525830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1992.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

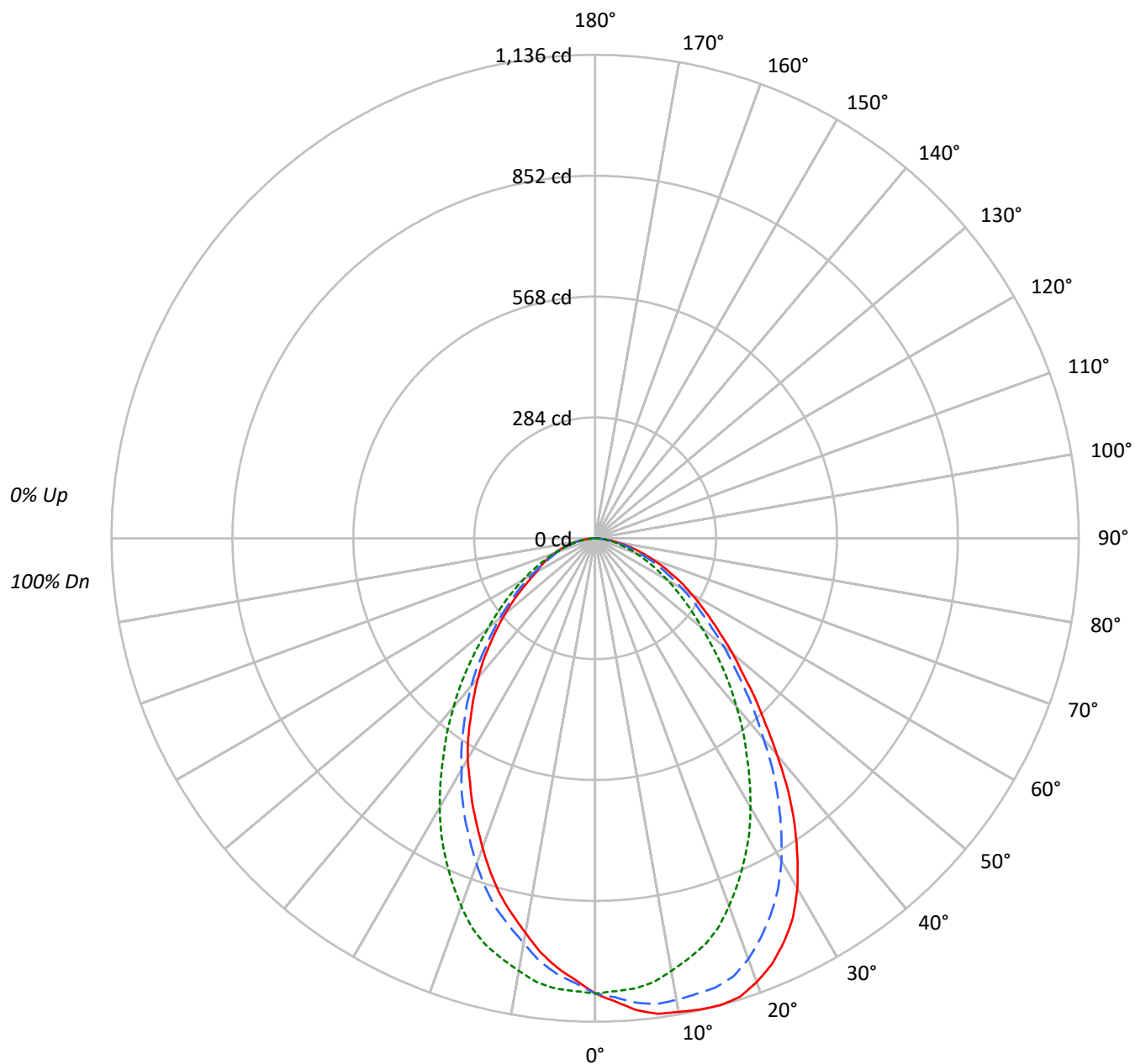
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581872

CATALOG NUMBER: HC620D010-HM60525830-61WWW

Luminous Intensity Polar Plot





TEST NUMBER: P581872

CATALOG NUMBER: HC620D010-HM60525830-61WWW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	58636	58636	58636
5°	61231	58463	55772
10°	62908	57458	52404
15°	64461	56209	49104
20°	64750	53665	45096
25°	63391	50241	41361
30°	60142	46203	37911
35°	54623	41519	34010
40°	47596	36984	30600
45°	41183	32368	26894
50°	35973	27871	23564
55°	31779	24496	20224
60°	28572	21468	17521
65°	25593	18679	16993
70°	22840	15932	15932
75°	19825	13408	14954
80°	15911	11365	13638
85°	10819	10001	11762



TEST NUMBER: P581872

CATALOG NUMBER: HC620D010-HM60525830-61WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	5.0
10°-20°	279.4	14.0
20°-30°	389.4	19.5
30°-40°	401.2	20.1
40°-50°	332.5	16.7
50°-60°	239.0	12.0
60°-70°	152.2	7.6
70°-80°	78.2	3.9
80°-90°	19.9	1.0
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°	769.4	38.6
0°-40°	1170.6	58.8
0°-60°	1742.2	87.4
0°-90°	1992.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1992.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1113	1096	1062	1028	1014	107
15°	1136	1093	990	900	865	320
25°	1048	976	831	724	684	480
35°	816	750	620	538	508	507
45°	531	494	418	364	347	411
55°	332	305	256	227	212	300
65°	197	176	144	125	131	198
75°	94	81	63	66	71	100
85°	17	16	16	17	19	22
90°	0	0	0	0	0	



TEST NUMBER: P581872

CATALOG NUMBER: HC620D010-HM60525830-61WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6
2.5°	1089.7	1085.4	1079.6	1073.9	1065.2	1055.2	1046.6	1043.7	1039.3
5°	1112.7	1107.1	1095.5	1081.1	1062.4	1043.7	1027.9	1017.8	1013.5
7.5°	1127.1	1120.0	1104.1	1079.6	1052.3	1024.9	1001.9	987.5	981.7
10°	1130.1	1122.8	1101.3	1068.2	1032.2	994.8	965.9	948.7	941.4
12.5°	1134.4	1124.3	1097.0	1058.1	1012.0	968.8	932.8	911.3	904.0
15°	1135.8	1124.3	1092.6	1045.1	990.4	938.6	899.7	873.8	865.2
17.5°	1130.1	1117.0	1079.6	1022.1	960.2	905.5	859.4	832.1	820.5
20°	1109.9	1095.5	1052.3	987.5	919.9	862.3	814.7	786.0	773.0
22.5°	1083.9	1065.2	1016.3	947.2	876.7	816.2	768.7	740.0	726.9
25°	1048.0	1030.7	976.0	902.5	830.6	767.3	724.1	693.8	683.8
27.5°	1006.2	986.0	930.0	856.5	783.1	719.8	678.0	650.7	637.8
30°	950.1	931.3	875.2	801.8	729.9	670.8	627.7	604.6	598.9
32.5°	883.9	868.0	813.4	744.3	675.2	620.4	584.4	559.9	554.3
35°	816.2	797.5	750.0	685.2	620.4	571.5	538.4	516.8	508.2
37.5°	742.8	725.6	685.2	627.7	570.0	524.0	495.2	476.5	467.8
40°	665.1	652.2	614.7	568.7	516.8	476.5	452.1	436.2	427.6
42.5°	593.1	580.1	554.3	511.0	467.8	431.9	410.3	395.9	388.6
45°	531.2	519.7	493.8	456.4	417.5	387.3	364.1	354.2	346.9
47.5°	469.3	463.5	440.5	406.0	369.9	344.1	328.2	316.7	310.9
50°	421.8	414.6	393.0	357.0	326.8	306.6	292.2	282.1	276.3
52.5°	372.9	365.6	345.5	315.3	290.8	272.0	257.6	249.0	243.3
55°	332.5	326.8	305.2	277.8	256.3	240.4	227.4	217.4	211.6
57.5°	295.1	289.4	269.2	243.3	224.6	210.2	198.6	190.0	182.9
60°	260.6	256.3	236.1	211.6	195.8	181.4	171.3	164.1	159.8
62.5°	230.3	221.7	204.4	182.9	168.5	156.9	146.8	142.5	145.4
65°	197.3	192.9	175.6	156.9	144.0	132.4	125.2	128.1	131.0
67.5°	169.8	164.1	149.7	132.4	120.9	112.3	108.0	113.8	115.1
70°	142.5	136.8	123.8	109.4	99.4	93.6	93.6	97.9	99.4
72.5°	116.6	112.3	100.7	89.3	82.0	77.7	80.7	83.5	85.0
75°	93.6	89.3	80.7	70.6	63.3	63.3	66.2	69.1	70.6
77.5°	71.9	69.1	60.5	53.3	50.4	50.4	53.3	54.7	56.2
80°	50.4	47.5	43.2	38.9	36.0	38.9	41.7	41.7	43.2
82.5°	33.1	31.7	28.8	25.9	25.9	27.3	28.8	30.3	30.3
85°	17.2	17.2	15.9	14.4	15.9	17.2	17.2	18.7	18.7
87.5°	5.8	5.8	5.8	5.8	7.3	7.3	7.3	7.3	7.3
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)