

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: P592995

Luminaire Tested: **HC605D010-HM60525850-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P592995
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: HC605D010-HM60525850-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 634.4 lumens
Efficiency: N/A
Efficacy: 105.7 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

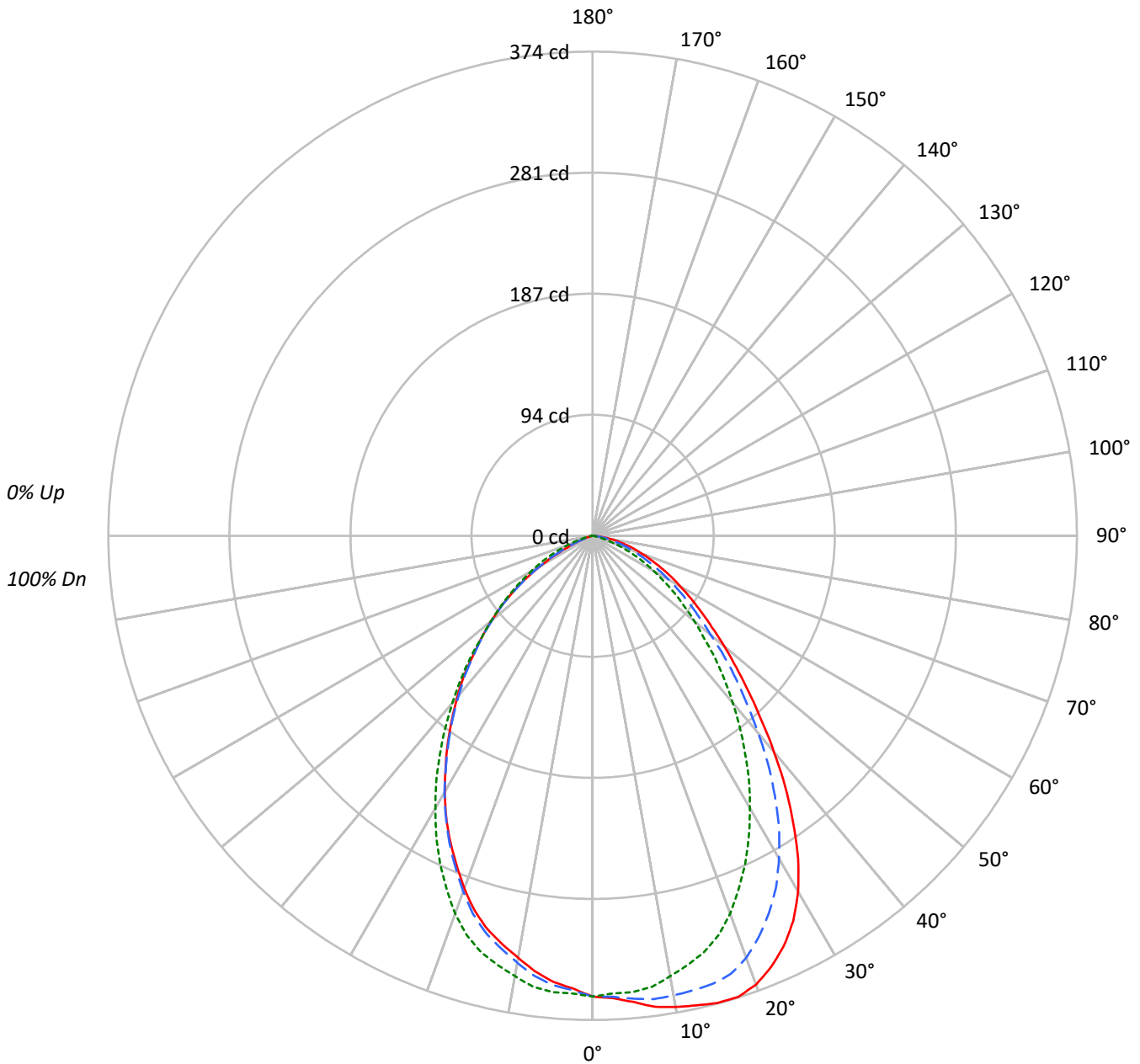
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	19510	19510	19510
5°	19893	19475	19040
10°	20569	19227	18425
15°	21198	18893	17843
20°	21521	18108	16906
25°	21140	16870	15751
30°	20092	15369	14452
35°	18056	13739	13037
40°	15586	12044	11643
45°	13195	10365	10094
50°	11317	8750	8665
55°	9806	7369	7082
60°	8563	5986	5054
65°	7536	4618	2802
70°	6508	3045	1362
75°	5507	1483	530
80°	4293	631	316
85°	2516	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	5.3
10°-20°	95.0	15.0
20°-30°	133.8	21.1
30°-40°	136.7	21.5
40°-50°	110.2	17.4
50°-60°	73.9	11.7
60°-70°	37.4	5.9
70°-80°	12.0	1.9
80°-90°	1.8	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°	262.4	41.4
0°-40°	399.0	62.9
0°-60°	583.2	91.9
0°-90°	634.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	356	356	356	356	356	
5°	362	359	354	348	346	35
15°	374	358	333	318	314	105
25°	350	322	279	262	260	160
35°	270	245	205	194	195	168
45°	170	157	134	129	130	132
55°	103	91	77	74	74	92
65°	58	48	36	24	22	58
75°	26	18	7	2	2	28
85°	4	2	0	0	0	5
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°	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9
2.5°	357.5	357.0	356.5	355.5	353.9	352.4	351.4	350.4	350.0
5°	361.5	360.5	359.0	357.0	353.9	350.4	348.5	346.5	346.0
7.5°	367.0	365.0	361.0	356.5	351.4	346.5	343.0	340.9	339.5
10°	369.5	366.0	360.5	353.0	345.4	339.5	334.9	332.0	331.0
12.5°	371.5	367.5	359.5	349.5	339.5	331.4	326.5	324.0	323.0
15°	373.5	369.5	358.4	345.4	332.9	323.4	317.9	315.4	314.4
17.5°	373.5	368.0	354.9	338.4	323.4	311.9	306.5	303.9	303.4
20°	368.9	363.0	346.9	327.5	310.4	297.4	292.4	290.9	289.8
22.5°	360.5	353.5	335.5	313.5	294.9	282.4	276.8	275.8	274.8
25°	349.5	342.5	321.9	298.4	278.9	266.3	261.8	260.8	260.4
27.5°	335.5	327.9	306.5	282.4	261.4	249.3	245.3	245.3	244.9
30°	317.4	308.9	287.9	263.9	242.8	231.8	228.8	228.8	228.3
32.5°	295.4	286.9	267.8	244.9	224.8	213.2	210.7	211.8	211.3
35°	269.8	262.8	245.3	222.8	205.3	194.8	193.8	194.8	194.8
37.5°	244.3	237.9	222.8	203.3	186.8	177.2	177.2	178.8	178.2
40°	217.8	212.8	198.8	181.7	168.3	161.7	160.7	162.3	162.7
42.5°	192.8	188.7	176.7	162.7	150.7	144.2	145.7	146.7	147.2
45°	170.2	166.2	156.7	142.2	133.7	129.2	129.2	130.6	130.2
47.5°	150.2	147.2	137.6	123.6	116.2	114.1	115.1	116.2	116.2
50°	132.7	128.1	119.2	108.1	102.6	100.1	101.1	101.6	101.6
52.5°	116.2	113.1	104.2	94.1	89.2	87.6	87.6	88.1	88.1
55°	102.6	99.1	91.1	81.1	77.1	75.1	73.6	73.1	74.1
57.5°	89.6	86.7	79.1	69.6	65.1	63.1	60.1	59.1	60.1
60°	78.1	75.6	68.1	59.1	54.6	50.5	47.0	45.1	46.1
62.5°	68.1	65.1	57.6	50.1	45.1	40.6	35.0	32.1	33.6
65°	58.1	55.6	48.0	40.6	35.6	30.1	23.5	21.6	21.6
67.5°	49.0	46.6	39.6	33.0	27.0	20.6	14.5	14.0	14.5
70°	40.6	38.1	32.1	25.5	19.0	12.5	8.5	8.5	8.5
72.5°	33.6	30.5	25.1	18.5	12.0	6.6	4.5	5.0	5.0
75°	26.0	23.5	18.5	12.5	7.0	3.1	2.5	2.5	2.5
77.5°	19.5	17.5	13.0	8.0	3.5	1.0	1.0	1.0	1.0
80°	13.6	11.5	8.5	5.0	2.0	1.0	1.0	1.0	1.0
82.5°	8.0	7.0	5.0	2.5	1.0	0.5	0.5	0.5	0.5
85°	4.0	3.5	2.0	1.0	0.5	0.5	0.5	0.5	0.5
87.5°	1.0	1.0	0.5	0.5	0.0	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)