

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: P582861

Luminaire Tested: **HC605D010-HM60525827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582861
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-HM60525827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 562.4 lumens
Efficiency: N/A
Efficacy: 93.7 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

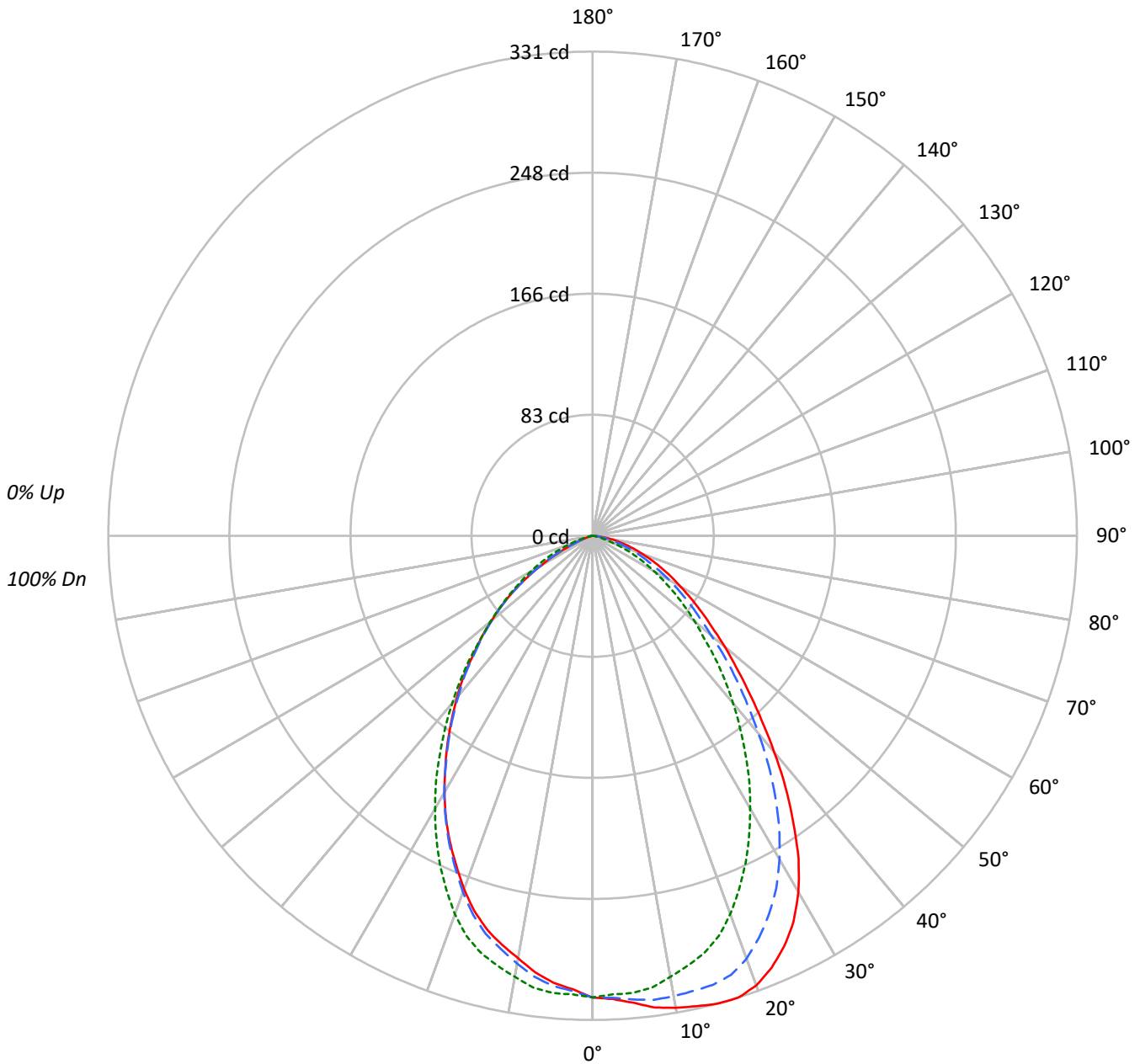
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17301	17301	17301
5°	17637	17268	16878
10°	18236	17045	16327
15°	18791	16754	15823
20°	19082	16055	14993
25°	18739	14952	13967
30°	17813	13629	12812
35°	16008	12180	11558
40°	13819	10677	10326
45°	11707	9187	8947
50°	10030	7761	7684
55°	8697	6537	6279
60°	7598	5307	4473
65°	6680	4086	2478
70°	5754	2693	1218
75°	4893	1313	487
80°	3788	568	284
85°	2201	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	5.3
10°-20°	84.2	15.0
20°-30°	118.6	21.1
30°-40°	121.2	21.5
40°-50°	97.7	17.4
50°-60°	65.5	11.6
60°-70°	33.2	5.9
70°-80°	10.6	1.9
80°-90°	1.7	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°	232.6	41.4
0°-40°	353.8	62.9
0°-60°	517.0	91.9
0°-90°	562.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	316	316	316	316	316	
5°	320	318	314	309	307	31
15°	331	318	295	282	279	93
25°	310	285	247	232	231	142
35°	239	218	182	172	173	149
45°	151	139	118	114	115	117
55°	91	81	68	65	66	82
65°	52	43	32	21	19	51
75°	23	16	6	2	2	25
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°	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6
2.5°	317.0	316.5	316.1	315.2	313.8	312.4	311.5	310.7	310.3
5°	320.5	319.6	318.2	316.5	313.8	310.7	308.9	307.1	306.7
7.5°	325.3	323.6	320.0	316.1	311.5	307.1	304.1	302.3	300.9
10°	327.6	324.4	319.6	312.9	306.2	300.9	297.0	294.3	293.3
12.5°	329.4	325.8	318.7	309.8	300.9	293.8	289.4	287.1	286.3
15°	331.1	327.6	317.8	306.2	295.2	286.8	281.8	279.7	278.8
17.5°	331.1	326.2	314.7	300.0	286.8	276.5	271.7	269.4	268.9
20°	327.1	321.8	307.6	290.3	275.2	263.6	259.2	257.9	257.0
22.5°	319.6	313.3	297.4	277.9	261.5	250.3	245.4	244.5	243.7
25°	309.8	303.6	285.4	264.5	247.2	236.2	232.1	231.3	230.9
27.5°	297.4	290.7	271.7	250.3	231.6	221.0	217.5	217.5	217.1
30°	281.4	273.9	255.3	233.9	215.3	205.5	202.8	202.8	202.4
32.5°	261.9	254.4	237.5	217.1	199.3	189.0	186.9	187.8	187.4
35°	239.2	233.0	217.5	197.5	182.0	172.7	171.8	172.7	172.7
37.5°	216.6	210.9	197.5	180.2	165.5	157.2	157.2	158.4	158.0
40°	193.1	188.6	176.2	161.1	149.2	143.4	142.5	143.8	144.3
42.5°	170.9	167.4	156.7	144.3	133.6	127.8	129.2	130.1	130.5
45°	151.0	147.4	138.9	126.1	118.5	114.5	114.5	115.8	115.4
47.5°	133.1	130.5	122.0	109.6	102.9	101.2	102.0	102.9	102.9
50°	117.6	113.7	105.7	95.8	91.0	88.8	89.6	90.1	90.1
52.5°	102.9	100.3	92.3	83.4	79.0	77.6	77.6	78.1	78.1
55°	91.0	87.9	80.8	71.9	68.4	66.6	65.2	64.7	65.7
57.5°	79.4	76.8	70.2	61.7	57.7	55.9	53.2	52.4	53.2
60°	69.3	67.0	60.3	52.4	48.4	44.9	41.7	40.0	40.8
62.5°	60.3	57.7	51.1	44.4	40.0	35.9	31.1	28.4	29.7
65°	51.5	49.3	42.6	35.9	31.5	26.7	20.9	19.1	19.1
67.5°	43.5	41.2	35.0	29.3	24.0	18.2	12.9	12.4	12.9
70°	35.9	33.8	28.4	22.6	16.8	11.1	7.6	7.6	7.6
72.5°	29.7	27.1	22.1	16.4	10.6	5.8	4.0	4.4	4.4
75°	23.1	20.9	16.4	11.1	6.2	2.7	2.3	2.3	2.3
77.5°	17.3	15.5	11.5	7.1	3.1	0.9	0.9	0.9	0.9
80°	12.0	10.2	7.6	4.4	1.8	0.9	0.9	0.9	0.9
82.5°	7.1	6.2	4.4	2.3	0.9	0.5	0.5	0.5	0.5
85°	3.5	3.1	1.8	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.9	0.9	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)