

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: P582970

Luminaire Tested: **HC605D010-HM60525935-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582970
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: HC605D010-HM60525935-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 596.2 lumens
Efficiency: N/A
Efficacy: 99.4 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

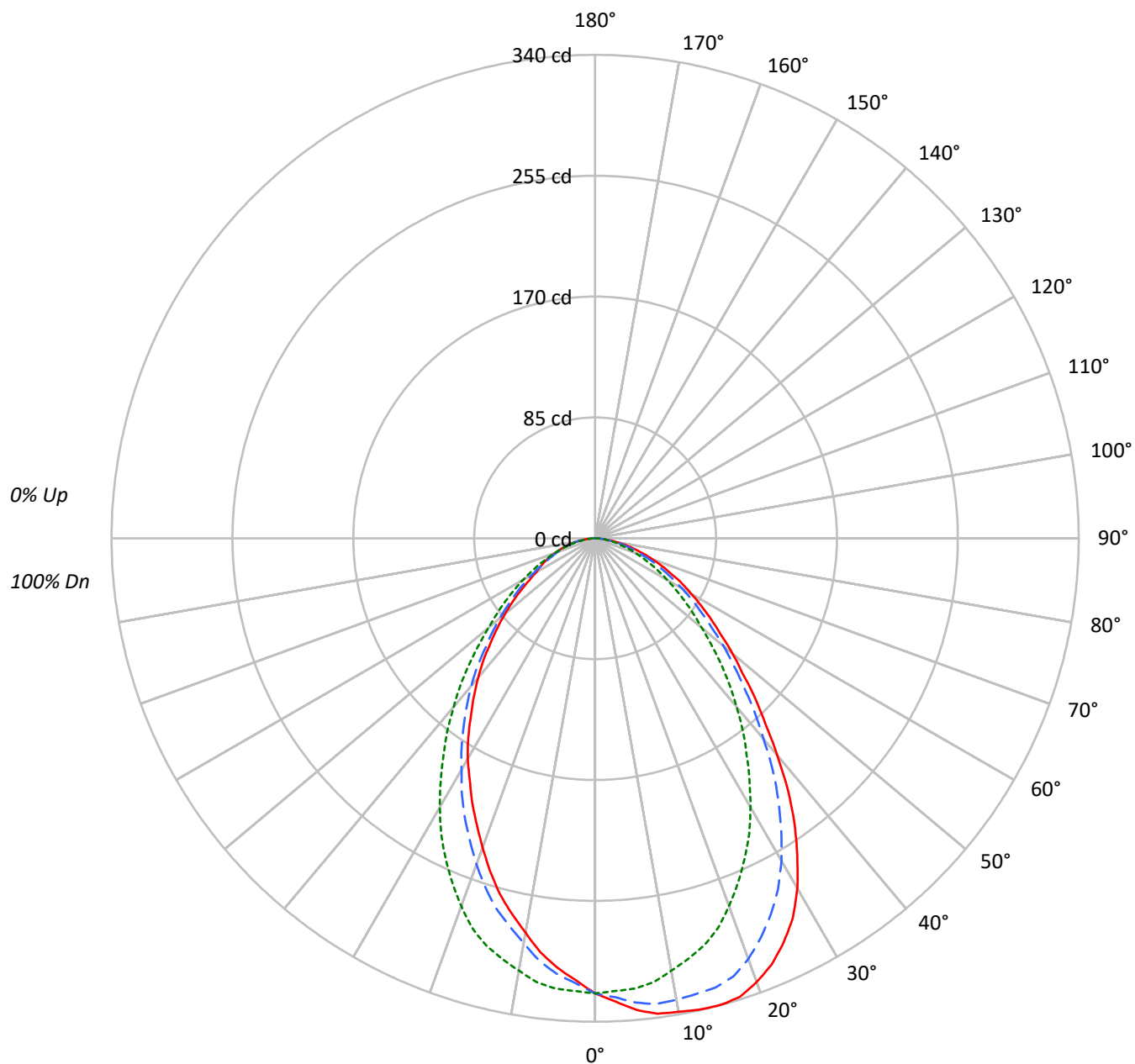
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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°	17548	17548	17548
5°	18325	17499	16690
10°	18826	17190	15681
15°	19291	16822	14694
20°	19374	16061	13494
25°	18969	15037	12376
30°	17996	13825	11344
35°	16349	12428	10179
40°	14241	11071	9153
45°	12327	9691	8047
50°	10763	8332	7053
55°	9519	7331	6050
60°	8552	6414	5241
65°	7653	5591	5085
70°	6828	4760	4760
75°	5931	4024	4469
80°	4735	3378	4072
85°	3271	2956	3522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	5.0
10°-20°	83.6	14.0
20°-30°	116.5	19.5
30°-40°	120.1	20.1
40°-50°	99.5	16.7
50°-60°	71.5	12.0
60°-70°	45.5	7.6
70°-80°	23.4	3.9
80°-90°	5.9	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°	230.3	38.6
0°-40°	350.3	58.8
0°-60°	521.4	87.4
0°-90°	596.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	320	320	320	320	320	
5°	333	328	318	308	303	32
15°	340	327	296	269	259	96
25°	314	292	249	217	205	144
35°	244	224	186	161	152	152
45°	159	148	125	109	104	123
55°	100	91	77	68	63	90
65°	59	52	43	38	39	59
75°	28	24	19	20	21	30
85°	5	5	5	5	6	7
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°	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1	320.1
2.5°	326.1	324.9	323.1	321.4	318.8	315.7	313.2	312.3	311.1
5°	333.0	331.3	327.8	323.5	318.0	312.3	307.6	304.5	303.3
7.5°	337.3	335.2	330.4	323.1	314.9	306.7	299.8	295.5	293.8
10°	338.2	336.1	329.5	319.7	308.8	297.6	289.1	283.9	281.7
12.5°	339.5	336.4	328.3	316.6	302.8	290.0	279.1	272.7	270.5
15°	339.9	336.4	327.0	312.8	296.4	280.9	269.3	261.5	258.9
17.5°	338.2	334.3	323.1	305.9	287.4	271.0	257.2	249.1	245.5
20°	332.1	327.8	314.9	295.5	275.3	258.1	243.9	235.3	231.3
22.5°	324.4	318.8	304.2	283.5	262.4	244.3	230.1	221.5	217.5
25°	313.6	308.5	292.1	270.1	248.6	229.6	216.7	207.7	204.6
27.5°	301.1	295.2	278.3	256.3	234.4	215.4	202.9	194.7	190.9
30°	284.3	278.8	261.9	240.0	218.4	200.8	187.8	180.9	179.2
32.5°	264.5	259.8	243.4	222.7	202.0	185.7	174.9	167.6	165.9
35°	244.3	238.7	224.4	205.1	185.7	171.1	161.1	154.7	152.1
37.5°	222.3	217.1	205.1	187.8	170.6	156.8	148.1	142.6	140.0
40°	199.0	195.2	184.0	170.2	154.7	142.6	135.3	130.5	127.9
42.5°	177.5	173.6	165.9	152.9	140.0	129.3	122.8	118.4	116.3
45°	159.0	155.5	147.8	136.6	125.0	115.9	109.0	106.0	103.8
47.5°	140.5	138.8	131.9	121.5	110.7	102.9	98.2	94.8	93.0
50°	126.2	124.1	117.6	106.8	97.7	91.8	87.5	84.4	82.7
52.5°	111.5	109.4	103.4	94.4	87.0	81.5	77.1	74.6	72.8
55°	99.6	97.7	91.3	83.2	76.7	72.0	68.0	65.1	63.3
57.5°	88.4	86.6	80.6	72.8	67.2	62.9	59.4	56.8	54.7
60°	78.0	76.7	70.6	63.3	58.5	54.2	51.3	49.2	47.8
62.5°	68.9	66.3	61.1	54.7	50.4	47.0	44.0	42.6	43.5
65°	59.0	57.7	52.5	47.0	43.1	39.7	37.5	38.3	39.2
67.5°	50.8	49.2	44.7	39.7	36.2	33.6	32.3	34.0	34.5
70°	42.6	40.9	37.1	32.8	29.7	28.0	28.0	29.3	29.7
72.5°	34.9	33.6	30.2	26.7	24.5	23.3	24.1	25.0	25.4
75°	28.0	26.7	24.1	21.1	19.0	19.0	19.8	20.7	21.1
77.5°	21.6	20.7	18.1	15.9	15.0	15.0	15.9	16.4	16.8
80°	15.0	14.2	12.9	11.6	10.7	11.6	12.5	12.5	12.9
82.5°	9.9	9.5	8.6	7.8	7.8	8.1	8.6	9.0	9.0
85°	5.2	5.2	4.7	4.3	4.7	5.2	5.2	5.6	5.6
87.5°	1.7	1.7	1.7	1.7	2.1	2.1	2.1	2.1	2.1
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)