

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: P582952

Luminaire Tested: **HC605D010-HM60525930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582952
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-HM60525930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 566.4 lumens
Efficiency: N/A
Efficacy: 94.4 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

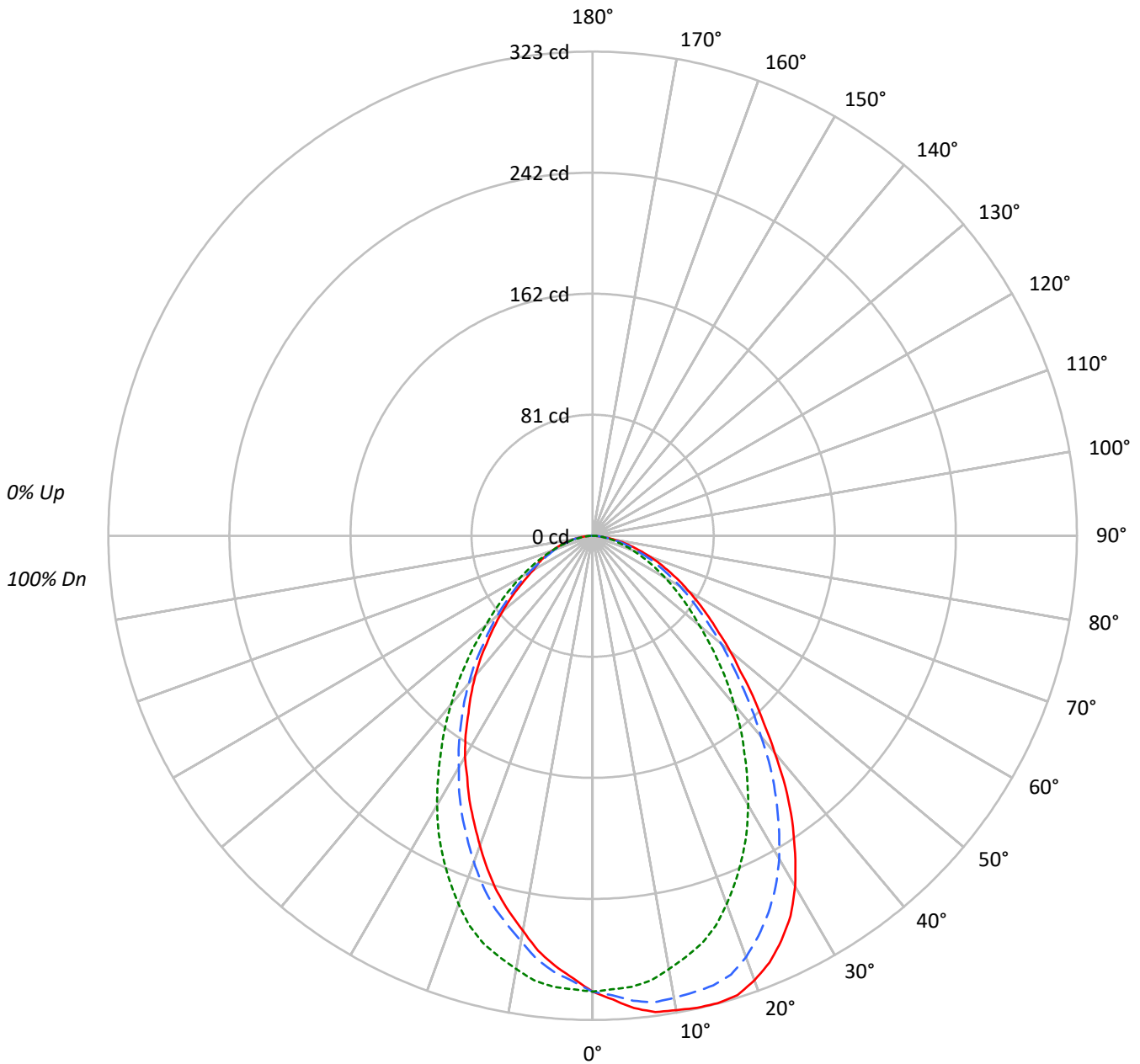
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	16671	16671	16671
5°	17406	16619	15849
10°	17885	16338	14896
15°	18320	15982	13956
20°	18406	15255	12823
25°	18019	14287	11759
30°	17098	13135	10780
35°	15526	11805	9664
40°	13525	10513	8702
45°	11707	9195	7644
50°	10226	7923	6695
55°	9041	6967	5744
60°	8113	6107	4978
65°	7264	5305	4838
70°	6508	4520	4520
75°	5634	3813	4236
80°	4546	3252	3883
85°	3082	2830	3334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	5.0
10°-20°	79.4	14.0
20°-30°	110.7	19.5
30°-40°	114.1	20.1
40°-50°	94.5	16.7
50°-60°	67.9	12.0
60°-70°	43.3	7.6
70°-80°	22.2	3.9
80°-90°	5.6	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°	218.7	38.6
0°-40°	332.8	58.8
0°-60°	495.2	87.4
0°-90°	566.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	566.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	304	304	304	304	304	
5°	316	311	302	292	288	30
15°	323	311	282	256	246	91
25°	298	277	236	206	194	137
35°	232	213	176	153	144	144
45°	151	140	119	104	99	117
55°	95	87	73	65	60	85
65°	56	50	41	36	37	56
75°	27	23	18	19	20	28
85°	5	4	4	5	5	6
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°	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1
2.5°	309.7	308.6	306.9	305.3	302.8	299.9	297.5	296.7	295.5
5°	316.3	314.7	311.4	307.4	302.0	296.7	292.2	289.3	288.0
7.5°	320.5	318.3	313.9	306.9	299.1	291.3	284.9	280.7	279.1
10°	321.3	319.2	313.0	303.6	293.5	282.7	274.6	269.7	267.6
12.5°	322.5	319.6	311.9	300.8	287.7	275.4	265.2	259.0	257.0
15°	322.8	319.6	310.6	297.1	281.6	266.8	255.7	248.4	245.9
17.5°	321.3	317.5	306.9	290.5	272.9	257.4	244.3	236.5	233.2
20°	315.5	311.4	299.1	280.7	261.5	245.1	231.6	223.4	219.8
22.5°	308.2	302.8	288.9	269.3	249.2	232.0	218.5	210.3	206.7
25°	297.9	293.0	277.4	256.6	236.2	218.1	205.9	197.3	194.4
27.5°	286.0	280.4	264.3	243.5	222.6	204.6	192.8	185.0	181.3
30°	270.1	264.8	248.8	227.9	207.5	190.7	178.4	171.9	170.3
32.5°	251.3	246.8	231.2	211.5	191.9	176.4	166.1	159.2	157.5
35°	232.0	226.7	213.2	194.8	176.4	162.5	153.0	146.9	144.4
37.5°	211.2	206.2	194.8	178.4	162.0	148.9	140.8	135.5	133.0
40°	189.0	185.4	174.7	161.6	146.9	135.5	128.5	124.0	121.6
42.5°	168.6	164.9	157.5	145.3	133.0	122.7	116.6	112.5	110.5
45°	151.0	147.7	140.3	129.7	118.6	110.1	103.5	100.7	98.6
47.5°	133.5	131.8	125.2	115.4	105.2	97.9	93.3	90.1	88.4
50°	119.9	117.9	111.8	101.5	92.9	87.1	83.1	80.2	78.5
52.5°	106.0	104.0	98.2	89.6	82.7	77.3	73.2	70.9	69.2
55°	94.6	92.9	86.8	79.0	72.9	68.4	64.6	61.8	60.1
57.5°	83.8	82.3	76.5	69.2	63.8	59.8	56.5	54.0	52.0
60°	74.0	72.9	67.1	60.1	55.7	51.5	48.7	46.7	45.4
62.5°	65.4	63.1	58.1	52.0	47.9	44.6	41.7	40.6	41.4
65°	56.0	54.8	49.9	44.6	40.9	37.6	35.6	36.4	37.3
67.5°	48.3	46.7	42.6	37.6	34.4	31.9	30.7	32.3	32.8
70°	40.6	38.9	35.1	31.1	28.2	26.6	26.6	27.8	28.2
72.5°	33.1	31.9	28.6	25.4	23.3	22.1	22.9	23.7	24.2
75°	26.6	25.4	22.9	20.0	18.0	18.0	18.9	19.7	20.0
77.5°	20.5	19.7	17.2	15.1	14.4	14.4	15.1	15.6	15.9
80°	14.4	13.6	12.3	11.1	10.3	11.1	11.9	11.9	12.3
82.5°	9.4	9.0	8.1	7.3	7.3	7.8	8.1	8.6	8.6
85°	4.9	4.9	4.5	4.1	4.5	4.9	4.9	5.3	5.3
87.5°	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.0	2.0
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)