

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: P582944

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 609.8 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

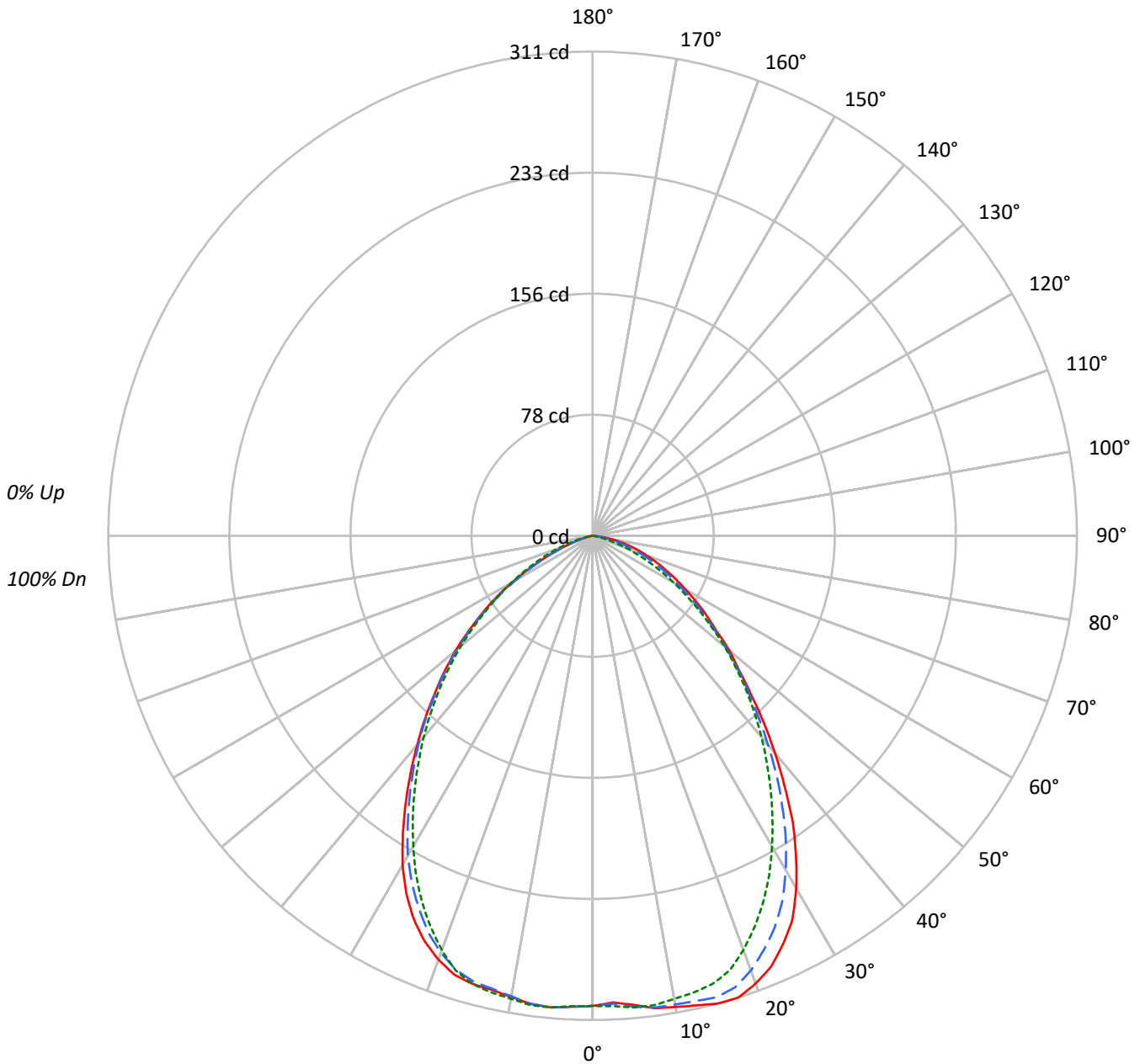
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582944

CATALOG NUMBER: HC605D010-HM60525930-61RWWC

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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16556	16556	16556
5°	16641	16734	16734
10°	17112	16811	16744
15°	17650	16913	16913
20°	17857	16521	16901
25°	17505	15690	16440
30°	16553	14585	15445
35°	14984	13338	14000
40°	13039	12065	12531
45°	11133	10761	11133
50°	9774	9424	9808
55°	8535	7942	8248
60°	7532	6589	6502
65°	6680	5202	4462
70°	5898	3670	2677
75°	5020	2076	1292
80°	3757	631	379
85°	2076	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	4.8
10°-20°	84.8	13.9
20°-30°	123.8	20.3
30°-40°	129.8	21.3
40°-50°	109.4	17.9
50°-60°	76.6	12.6
60°-70°	41.1	6.7
70°-80°	13.8	2.3
80°-90°	1.5	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°	237.5	39.0
0°-40°	367.4	60.2
0°-60°	553.4	90.8
0°-90°	609.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	609.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	302	302	302	302	302	
5°	302	304	304	304	304	29
15°	311	307	298	296	298	88
25°	289	277	259	264	272	133
35°	224	212	199	205	209	139
45°	144	141	139	142	144	112
55°	89	86	83	85	86	80
65°	52	47	40	33	34	51
75°	24	18	10	6	6	25
85°	3	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°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
2.5°	300.0	300.0	300.8	301.6	302.4	302.4	302.8	303.3	302.8
5°	302.4	302.4	303.6	304.1	304.1	303.6	304.1	304.1	304.1
7.5°	306.1	305.3	305.7	304.9	304.1	303.6	303.3	303.3	303.3
10°	307.4	306.6	305.7	304.1	302.0	300.8	300.4	300.8	300.8
12.5°	308.9	308.2	306.1	302.8	300.4	298.3	298.0	298.8	298.8
15°	311.0	310.2	306.9	301.6	298.0	295.8	296.3	297.1	298.0
17.5°	311.0	309.4	304.1	297.1	292.7	290.5	292.2	294.3	295.5
20°	306.1	304.5	297.1	288.5	283.2	281.9	284.9	288.5	289.7
22.5°	299.6	296.3	287.7	277.5	271.8	271.8	275.8	280.4	281.9
25°	289.4	286.9	277.1	265.2	259.4	259.1	264.0	270.1	271.8
27.5°	277.9	274.6	264.0	251.7	245.5	246.0	251.3	257.4	259.1
30°	261.5	257.4	248.0	236.2	230.4	232.1	237.4	241.8	244.0
32.5°	243.1	239.4	230.9	219.8	214.8	216.5	221.0	225.1	226.7
35°	223.9	219.8	212.4	202.6	199.3	200.9	205.0	208.3	209.2
37.5°	202.2	199.3	194.0	186.2	183.7	185.8	189.0	191.1	192.0
40°	182.2	179.7	175.1	169.4	168.6	170.3	173.6	174.7	175.1
42.5°	162.5	160.5	157.5	153.5	153.5	155.1	158.0	158.8	159.2
45°	143.6	142.4	141.1	138.0	138.8	140.8	142.4	143.6	143.6
47.5°	127.2	127.7	126.0	123.6	124.4	126.4	127.7	128.9	128.9
50°	114.6	113.3	111.8	109.3	110.5	112.1	113.8	114.6	115.0
52.5°	99.9	99.4	98.2	95.4	96.2	97.0	98.6	99.9	100.2
55°	89.3	88.0	86.3	83.1	83.1	83.8	84.7	85.5	86.3
57.5°	79.0	77.7	75.3	71.6	71.2	71.2	70.9	71.6	72.9
60°	68.7	68.4	64.6	61.4	60.1	59.0	57.3	57.7	59.3
62.5°	59.8	59.0	55.7	51.5	49.2	47.0	45.0	44.6	46.2
65°	51.5	50.7	47.0	42.9	40.1	36.4	33.1	33.1	34.4
67.5°	44.2	42.6	39.3	34.8	31.1	26.6	23.3	24.2	24.5
70°	36.8	35.6	31.9	27.5	22.9	18.4	16.4	16.7	16.7
72.5°	30.3	28.7	25.0	20.5	15.9	11.9	11.1	10.6	10.6
75°	23.7	22.1	18.4	13.9	9.8	7.0	6.1	6.1	6.1
77.5°	17.2	15.9	12.7	8.6	5.3	3.3	2.8	2.5	2.5
80°	11.9	10.6	7.8	4.5	2.0	1.2	1.2	1.2	1.2
82.5°	7.0	5.8	3.7	2.0	0.8	0.5	0.5	0.5	0.5
85°	3.3	2.5	1.6	0.8	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	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)