

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: P593011

Luminaire Tested: **HC605D010-HM60525950-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593011  
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-HM60525950-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 650.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 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

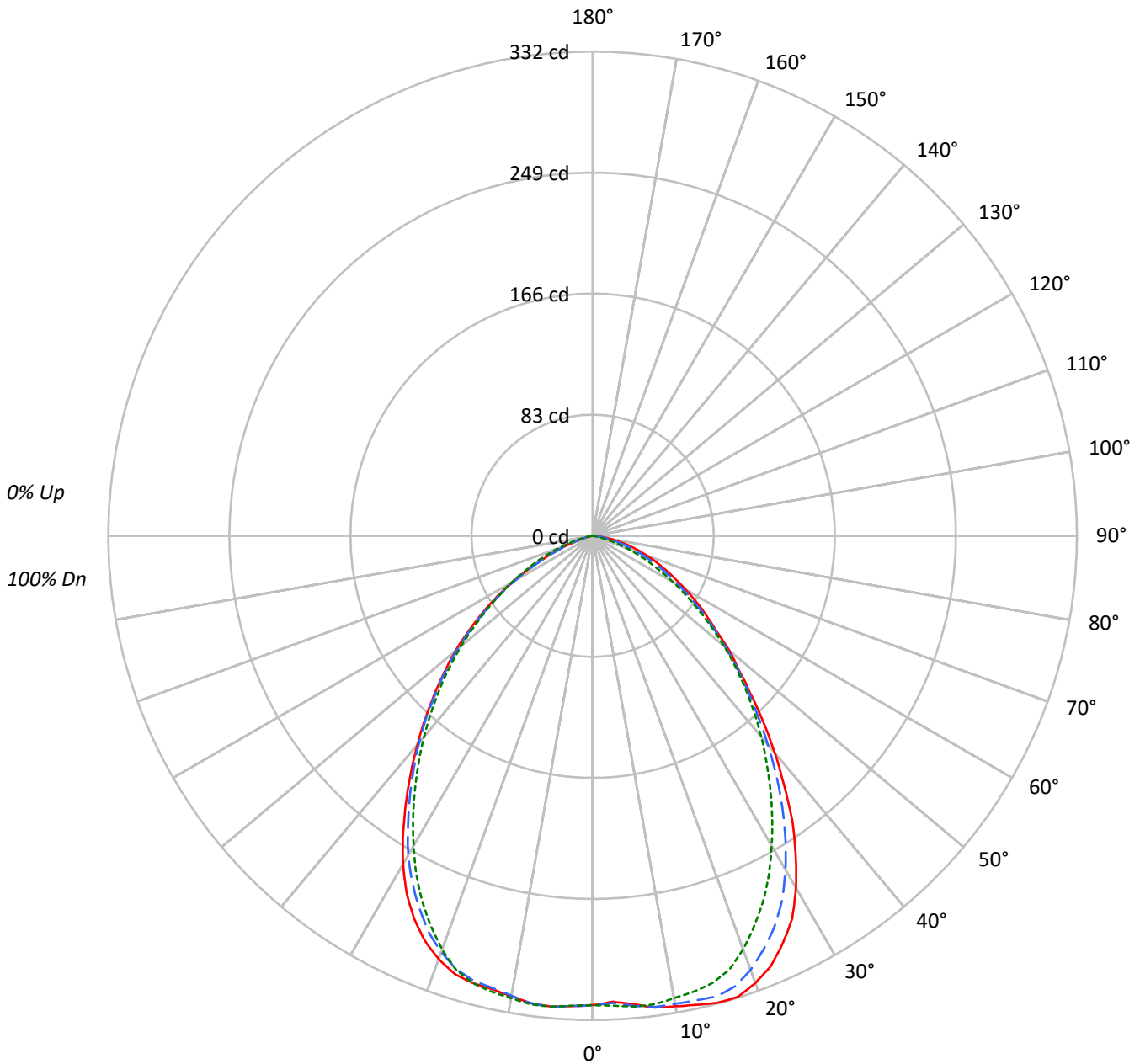
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593011

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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			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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68			68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	17647	17647	17647
5°	17742	17835	17835
10°	18236	17919	17846
15°	18814	18019	18019
20°	19036	17607	18015
25°	18654	16731	17517
30°	17648	15540	16458
35°	15975	14214	14917
40°	13890	12867	13361
45°	11869	11466	11869
50°	10422	10038	10456
55°	9089	8468	8803
60°	8037	7028	6940
65°	7121	5539	4748
70°	6283	3911	2869
75°	5359	2224	1398
80°	4009	663	442
85°	2201	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.9	4.8
10°-20°	90.3	13.9
20°-30°	132.0	20.3
30°-40°	138.4	21.3
40°-50°	116.6	17.9
50°-60°	81.7	12.6
60°-70°	43.8	6.7
70°-80°	14.7	2.3
80°-90°	1.6	0.2
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°	253.2	39.0
0°-40°	391.6	60.2
0°-60°	589.9	90.7
0°-90°	650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	650.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	322	322	322	322	322	
5°	322	324	324	324	324	31
15°	332	327	318	316	318	94
25°	308	295	277	281	290	141
35°	239	226	212	218	223	148
45°	153	150	148	152	153	119
55°	95	92	89	90	92	86
65°	55	50	43	35	37	55
75°	25	20	10	7	7	27
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°	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9
2.5°	319.8	319.8	320.6	321.5	322.4	322.4	322.8	323.3	322.8
5°	322.4	322.4	323.6	324.1	324.1	323.6	324.1	324.1	324.1
7.5°	326.3	325.4	325.9	325.0	324.1	323.6	323.3	323.3	323.3
10°	327.6	326.7	325.9	324.1	321.9	320.6	320.2	320.6	320.6
12.5°	329.4	328.5	326.3	322.8	320.2	318.0	317.5	318.4	318.4
15°	331.5	330.6	327.1	321.5	317.5	315.4	315.8	316.7	317.5
17.5°	331.5	329.8	324.1	316.7	311.9	309.7	311.4	313.7	314.9
20°	326.3	324.5	316.7	307.6	301.8	300.6	303.6	307.6	308.8
22.5°	319.3	315.8	306.7	295.7	289.6	289.6	294.0	298.8	300.6
25°	308.4	305.8	295.4	282.7	276.6	276.2	281.4	287.9	289.6
27.5°	296.2	292.7	281.4	268.3	261.7	262.2	267.8	274.4	276.2
30°	278.8	274.4	264.3	251.7	245.5	247.4	253.0	257.9	260.0
32.5°	259.1	255.2	246.0	234.2	229.1	230.7	235.6	239.9	241.7
35°	238.7	234.2	226.5	215.9	212.4	214.1	218.5	222.0	222.9
37.5°	215.5	212.4	206.8	198.5	195.8	198.1	201.6	203.7	204.6
40°	194.1	191.5	186.7	180.6	179.8	181.5	185.0	186.2	186.7
42.5°	173.2	171.0	167.9	163.6	163.6	165.3	168.4	169.3	169.7
45°	153.1	151.8	150.5	147.0	147.9	150.1	151.8	153.1	153.1
47.5°	135.7	136.1	134.4	131.8	132.7	134.8	136.1	137.4	137.4
50°	122.2	120.8	119.1	116.5	117.7	119.6	121.2	122.2	122.6
52.5°	106.4	106.0	104.8	101.6	102.5	103.4	105.1	106.4	106.9
55°	95.1	93.8	92.1	88.6	88.6	89.4	90.3	91.2	92.1
57.5°	84.2	82.8	80.2	76.4	75.9	75.9	75.5	76.4	77.6
60°	73.3	72.9	68.9	65.4	64.1	62.8	61.0	61.5	63.3
62.5°	63.7	62.8	59.3	54.9	52.3	50.2	48.0	47.6	49.3
65°	54.9	54.1	50.2	45.8	42.7	38.9	35.4	35.4	36.6
67.5°	47.1	45.3	41.9	37.1	33.1	28.4	24.9	25.8	26.2
70°	39.2	38.0	34.0	29.3	24.4	19.7	17.4	17.9	17.9
72.5°	32.3	30.5	26.6	21.8	17.1	12.7	11.8	11.3	11.3
75°	25.3	23.5	19.7	14.8	10.5	7.5	6.6	6.6	6.6
77.5°	18.3	17.1	13.6	9.2	5.6	3.5	3.1	2.6	2.6
80°	12.7	11.3	8.2	4.7	2.1	1.4	1.4	1.4	1.4
82.5°	7.5	6.1	4.0	2.1	0.9	0.5	0.5	0.5	0.5
85°	3.5	2.6	1.7	0.9	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



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







(END OF REPORT)