

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: P593013

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593013  
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-HM60525950-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 552.7 lumens  
Efficiency: N/A  
Efficacy: 92.1 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

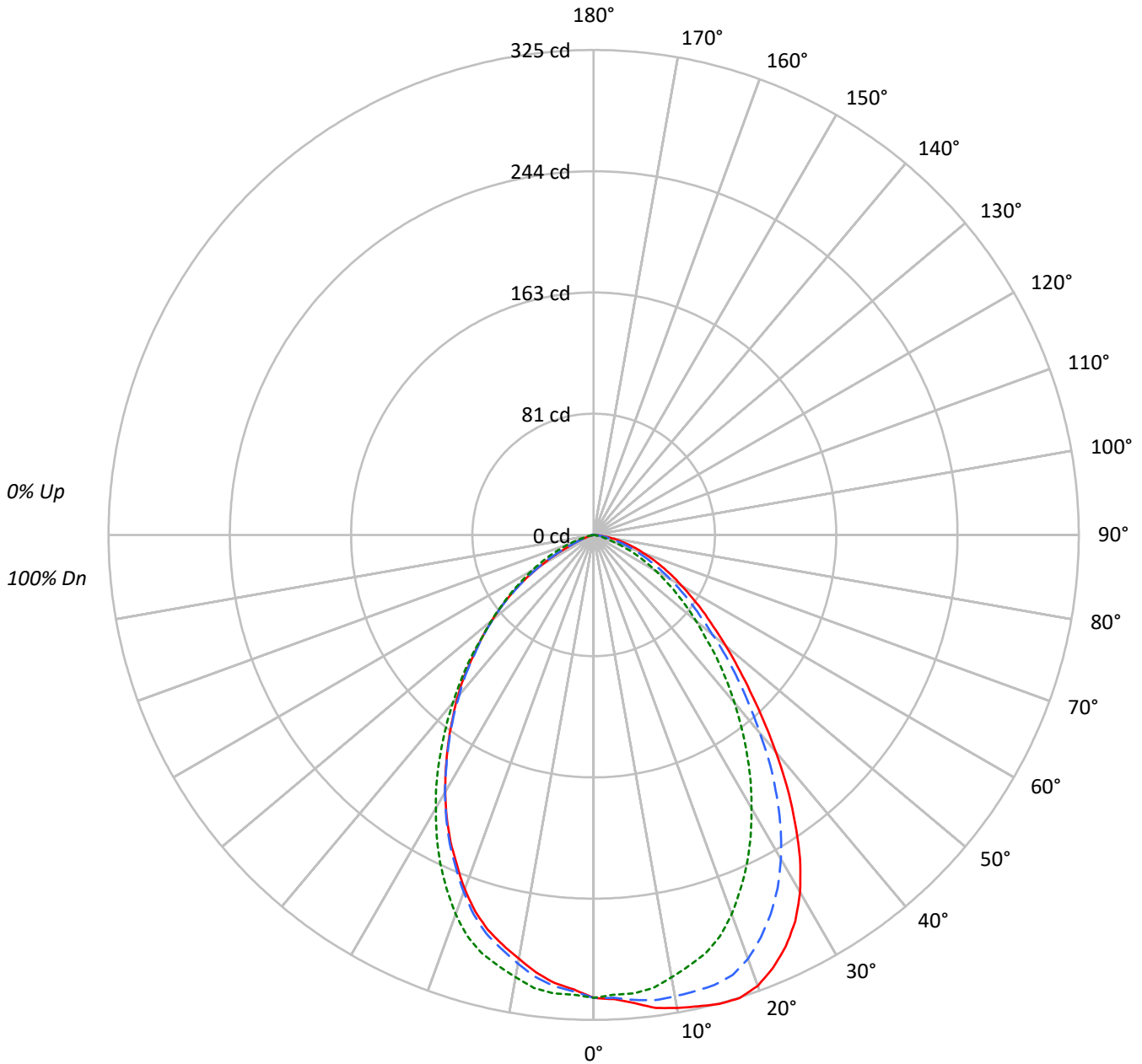
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69			69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61			61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44			44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40			40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37			37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34			34

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

	0°	90°	180°
0°	17005	17005	17005
5°	17329	16971	16586
10°	17919	16755	16054
15°	18468	16464	15545
20°	18756	15775	14736
25°	18412	14698	13719
30°	17503	13388	12591
35°	15740	11973	11357
40°	13575	10491	10148
45°	11497	9032	8799
50°	9859	7624	7556
55°	8544	6413	6165
60°	7456	5219	4397
65°	6564	4021	2439
70°	5674	2661	1202
75°	4808	1292	445
80°	3725	537	284
85°	2201	314	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.3	5.3
10°-20°	82.8	15.0
20°-30°	116.5	21.1
30°-40°	119.1	21.5
40°-50°	96.0	17.4
50°-60°	64.4	11.6
60°-70°	32.6	5.9
70°-80°	10.4	1.9
80°-90°	1.6	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°	228.6	41.4
0°-40°	347.7	62.9
0°-60°	508.1	91.9
0°-90°	552.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	310	310	310	310	310	
5°	315	313	308	304	301	30
15°	325	312	290	277	274	92
25°	304	280	243	228	227	139
35°	235	214	179	169	170	146
45°	148	136	116	112	114	115
55°	89	79	67	64	64	80
65°	51	42	31	20	19	50
75°	23	16	6	2	2	24
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°	310.2	310.2	310.2	310.2	310.2	310.2	310.2	310.2	310.2
2.5°	311.4	311.0	310.5	309.7	308.4	307.1	306.2	305.3	304.9
5°	314.9	314.0	312.8	311.0	308.4	305.3	303.6	301.8	301.4
7.5°	319.8	318.0	314.5	310.5	306.2	301.8	298.8	297.1	295.7
10°	321.9	318.9	314.0	307.5	301.0	295.7	291.8	289.2	288.4
12.5°	323.6	320.1	313.2	304.4	295.7	288.7	284.4	282.3	281.4
15°	325.4	321.9	312.3	301.0	290.1	281.8	277.0	274.8	273.9
17.5°	325.4	320.6	309.3	294.8	281.8	271.8	266.9	264.8	264.3
20°	321.5	316.3	302.3	285.3	270.4	259.1	254.7	253.5	252.6
22.5°	314.0	307.9	292.2	273.0	257.0	246.0	241.3	240.4	239.4
25°	304.4	298.3	280.5	260.0	243.0	232.1	228.1	227.2	226.8
27.5°	292.2	285.7	266.9	246.0	227.7	217.2	213.8	213.8	213.3
30°	276.5	269.2	250.9	229.8	211.5	201.9	199.3	199.3	198.9
32.5°	257.4	250.0	233.3	213.3	195.8	185.8	183.6	184.5	184.1
35°	235.2	229.1	213.8	194.1	178.9	169.7	168.8	169.7	169.7
37.5°	212.9	207.2	194.1	177.1	162.7	154.5	154.5	155.7	155.3
40°	189.7	185.4	173.2	158.3	146.6	140.9	140.0	141.4	141.8
42.5°	167.9	164.4	154.0	141.8	131.3	125.7	126.9	127.8	128.3
45°	148.3	144.9	136.5	123.8	116.5	112.5	112.5	113.9	113.5
47.5°	130.9	128.3	120.0	107.7	101.2	99.4	100.3	101.2	101.2
50°	115.6	111.6	103.8	94.2	89.4	87.2	88.1	88.6	88.6
52.5°	101.2	98.5	90.7	82.0	77.6	76.4	76.4	76.7	76.7
55°	89.4	86.3	79.4	70.6	67.1	65.4	64.1	63.7	64.5
57.5°	78.1	75.5	68.9	60.7	56.7	54.9	52.3	51.5	52.3
60°	68.0	65.9	59.3	51.5	47.6	44.1	41.0	39.2	40.1
62.5°	59.3	56.7	50.2	43.6	39.2	35.4	30.5	27.9	29.3
65°	50.6	48.4	41.9	35.4	31.0	26.2	20.5	18.8	18.8
67.5°	42.7	40.6	34.5	28.8	23.5	17.9	12.7	12.2	12.7
70°	35.4	33.1	27.9	22.3	16.6	11.0	7.5	7.5	7.5
72.5°	29.3	26.6	21.8	16.2	10.5	5.6	4.0	4.4	4.4
75°	22.7	20.5	16.2	11.0	6.1	2.6	2.1	2.1	2.1
77.5°	17.1	15.3	11.3	7.0	3.1	0.9	0.9	0.9	0.9
80°	11.8	10.1	7.5	4.4	1.7	0.9	0.9	0.9	0.9
82.5°	7.0	6.1	4.4	2.1	0.9	0.5	0.5	0.5	0.5
85°	3.5	3.1	1.7	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



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







(END OF REPORT)