

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: P583384

Luminaire Tested: **HC607D010-HM60525930-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583384  
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: HC607D010-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: 749.7 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

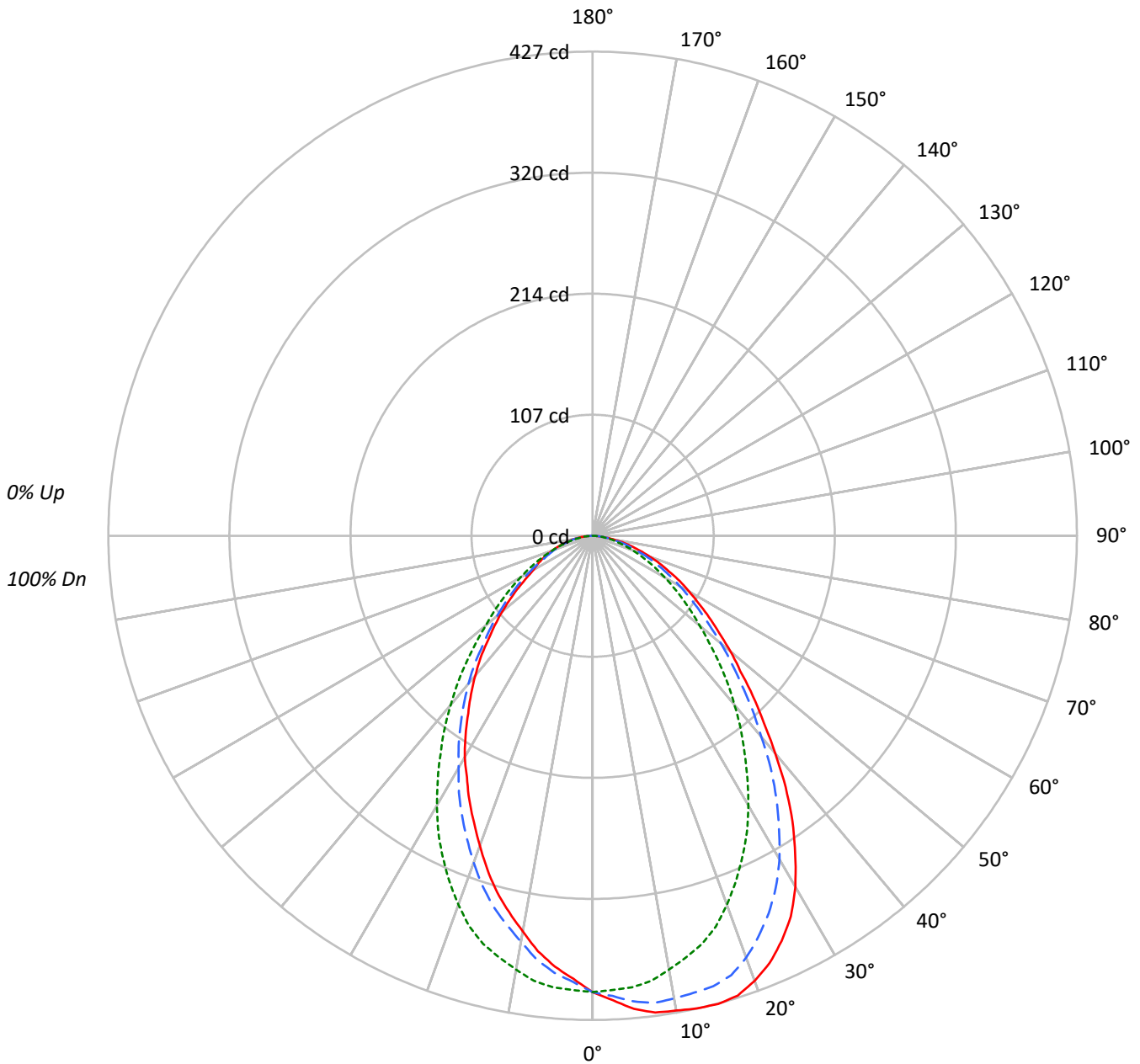
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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								
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°	22060	22060	22060
5°	23046	21995	20988
10°	23669	21621	19722
15°	24257	21147	18473
20°	24362	20191	16965
25°	23850	18908	15563
30°	22630	17382	14268
35°	20559	15627	12802
40°	17912	13912	11514
45°	15498	12172	10117
50°	13535	10482	8870
55°	11957	9214	7608
60°	10745	8070	6600
65°	9625	7031	6395
70°	8591	5995	5995
75°	7456	5041	5613
80°	5967	4293	5114
85°	4088	3774	4403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.8	5.0
10°-20°	105.1	14.0
20°-30°	146.5	19.5
30°-40°	151.0	20.1
40°-50°	125.1	16.7
50°-60°	89.9	12.0
60°-70°	57.3	7.6
70°-80°	29.4	3.9
80°-90°	7.5	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°	289.5	38.6
0°-40°	440.5	58.8
0°-60°	655.5	87.4
0°-90°	749.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	749.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	402	402	402	402	402	
5°	419	412	400	387	381	40
15°	427	411	373	338	326	120
25°	394	367	313	272	257	181
35°	307	282	234	203	191	191
45°	200	186	157	137	130	155
55°	125	115	96	86	80	113
65°	74	66	54	47	49	74
75°	35	30	24	25	26	38
85°	6	6	6	6	7	8
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°	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
2.5°	410.0	408.4	406.3	404.1	400.9	397.0	393.8	392.7	391.1
5°	418.8	416.5	412.2	406.7	399.7	392.7	386.8	383.0	381.4
7.5°	424.1	421.5	415.5	406.3	396.0	385.7	376.9	371.6	369.5
10°	425.2	422.5	414.3	401.9	388.4	374.3	363.5	357.0	354.3
12.5°	426.8	423.1	412.8	398.1	380.8	364.6	351.0	342.8	340.1
15°	427.4	423.1	411.2	393.3	372.6	353.2	338.5	328.8	325.5
17.5°	425.2	420.3	406.3	384.5	361.3	340.7	323.4	313.0	308.7
20°	417.6	412.2	396.0	371.6	346.1	324.5	306.6	295.7	290.8
22.5°	407.9	400.9	382.4	356.4	329.9	307.2	289.3	278.4	273.5
25°	394.3	387.8	367.2	339.7	312.6	288.7	272.5	261.0	257.3
27.5°	378.6	371.1	349.9	322.3	294.7	270.8	255.2	244.8	240.0
30°	357.5	350.4	329.4	301.7	274.6	252.4	236.1	227.5	225.4
32.5°	332.5	326.6	306.0	280.1	254.0	233.5	219.9	210.7	208.6
35°	307.2	300.1	282.2	257.9	233.5	215.0	202.6	194.4	191.3
37.5°	279.5	273.1	257.9	236.1	214.5	197.1	186.4	179.2	176.1
40°	250.3	245.4	231.2	213.9	194.4	179.2	170.1	164.2	160.9
42.5°	223.2	218.3	208.6	192.3	176.1	162.5	154.4	149.0	146.3
45°	199.9	195.6	185.8	171.8	157.0	145.7	137.1	133.2	130.5
47.5°	176.6	174.4	165.8	152.7	139.2	129.5	123.5	119.2	117.0
50°	158.7	156.0	147.9	134.4	122.9	115.3	110.0	106.2	104.0
52.5°	140.3	137.5	130.0	118.6	109.4	102.4	97.0	93.7	91.5
55°	125.1	122.9	114.9	104.6	96.4	90.4	85.5	81.8	79.6
57.5°	111.0	108.9	101.3	91.5	84.5	79.1	74.8	71.5	68.8
60°	98.0	96.4	88.8	79.6	73.6	68.2	64.5	61.7	60.2
62.5°	86.7	83.4	76.9	68.8	63.3	59.0	55.3	53.6	54.7
65°	74.2	72.6	66.1	59.0	54.2	49.9	47.1	48.2	49.3
67.5°	63.9	61.7	56.3	49.9	45.5	42.3	40.7	42.8	43.3
70°	53.6	51.4	46.6	41.1	37.4	35.2	35.2	36.8	37.4
72.5°	43.8	42.3	38.0	33.5	30.9	29.2	30.4	31.4	32.0
75°	35.2	33.5	30.4	26.5	23.8	23.8	24.9	25.9	26.5
77.5°	27.1	25.9	22.8	20.1	18.9	18.9	20.1	20.6	21.1
80°	18.9	17.9	16.2	14.6	13.6	14.6	15.7	15.7	16.2
82.5°	12.5	11.9	10.9	9.7	9.7	10.3	10.9	11.3	11.3
85°	6.5	6.5	6.0	5.4	6.0	6.5	6.5	7.0	7.0
87.5°	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7	2.7
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)