

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: P583419

Luminaire Tested: **HC607D010-HM60525940-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583419
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: HC607D010-HM60525940-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 731.6 lumens
Efficiency: N/A
Efficacy: 91.4 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

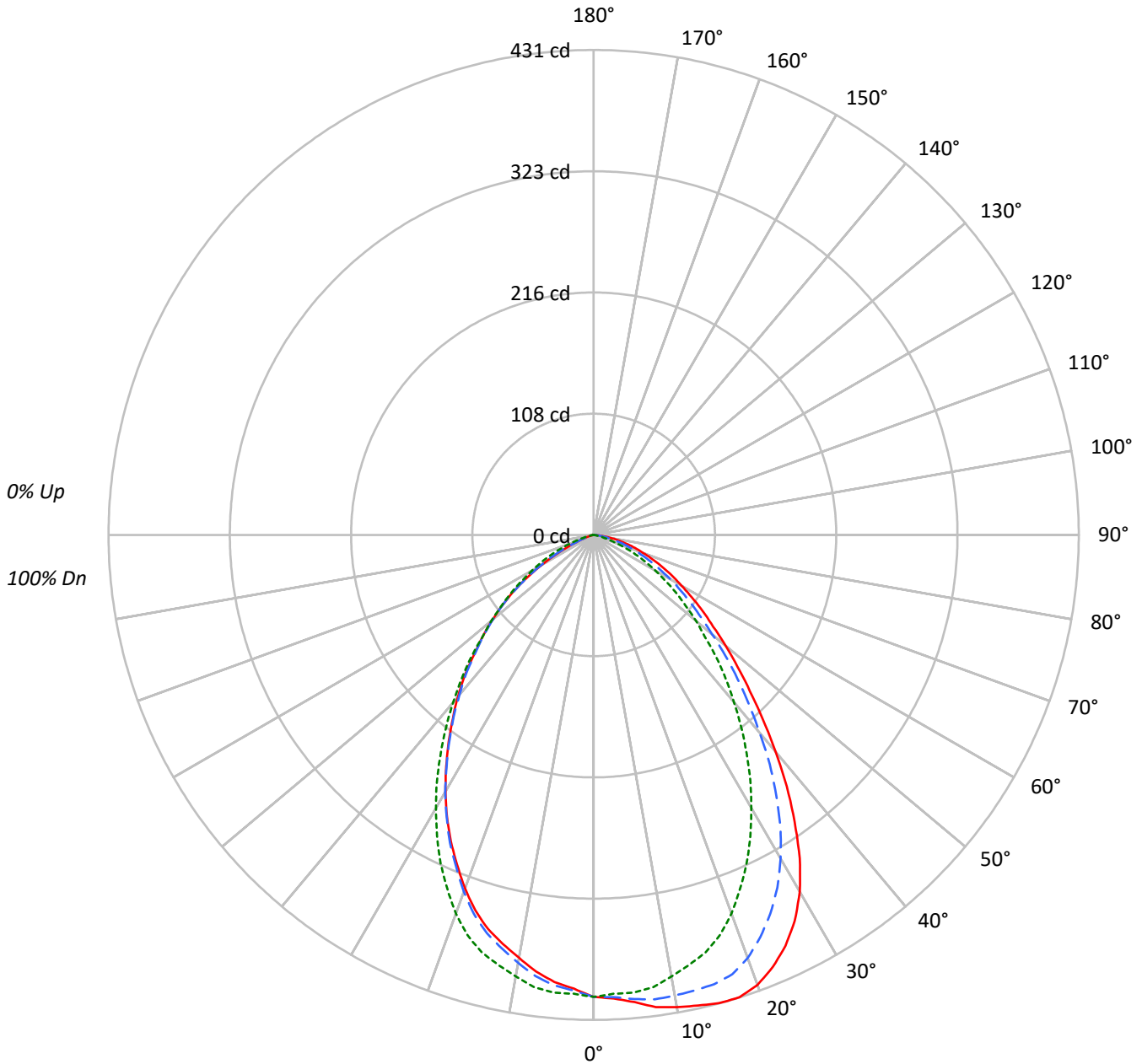
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22504	22504	22504
5°	22936	22463	21951
10°	23719	22177	21248
15°	24450	21794	20579
20°	24829	20885	19503
25°	24376	19459	18158
30°	23174	17731	16667
35°	20826	15841	15031
40°	17977	13883	13425
45°	15219	11955	11637
50°	13049	10098	10004
55°	11316	8497	8162
60°	9879	6896	5822
65°	8691	5318	3217
70°	7501	3526	1587
75°	6354	1694	593
80°	4925	726	347
85°	2893	377	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	5.3
10°-20°	109.6	15.0
20°-30°	154.3	21.1
30°-40°	157.6	21.5
40°-50°	127.1	17.4
50°-60°	85.2	11.7
60°-70°	43.1	5.9
70°-80°	13.8	1.9
80°-90°	2.1	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°	302.6	41.4
0°-40°	460.2	62.9
0°-60°	672.5	91.9
0°-90°	731.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	410	410	410	410	410	
5°	417	414	408	402	399	40
15°	431	413	384	367	363	122
25°	403	371	322	302	300	185
35°	311	283	237	223	225	194
45°	196	181	154	149	150	153
55°	118	105	89	85	85	106
65°	67	55	41	27	25	67
75°	30	21	8	3	3	32
85°	5	2	1	1	1	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°	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5	410.5
2.5°	412.3	411.7	411.1	409.9	408.2	406.5	405.3	404.1	403.6
5°	416.8	415.7	414.0	411.7	408.2	404.1	401.9	399.6	398.9
7.5°	423.2	420.9	416.3	411.1	405.3	399.6	395.5	393.2	391.5
10°	426.1	422.0	415.7	407.1	398.4	391.5	386.2	382.8	381.7
12.5°	428.4	423.9	414.6	403.0	391.5	382.3	376.5	373.6	372.4
15°	430.8	426.1	413.4	398.4	384.0	373.0	366.6	363.8	362.6
17.5°	430.8	424.4	409.4	390.3	373.0	359.7	353.4	350.4	349.9
20°	425.6	418.6	400.2	377.6	358.0	343.0	337.2	335.5	334.3
22.5°	415.7	407.7	386.8	361.4	340.1	325.6	319.3	318.1	317.0
25°	403.0	395.0	371.3	344.1	321.7	307.2	301.9	300.8	300.2
27.5°	386.8	378.2	353.4	325.6	301.4	287.6	282.9	282.9	282.3
30°	366.1	356.2	332.0	304.3	280.1	267.3	263.9	263.9	263.3
32.5°	340.7	330.8	308.9	282.3	259.2	246.0	243.0	244.3	243.7
35°	311.2	303.1	282.9	257.0	236.7	224.6	223.4	224.6	224.6
37.5°	281.8	274.3	257.0	234.4	215.4	204.4	204.4	206.1	205.5
40°	251.2	245.4	229.2	209.6	194.0	186.5	185.4	187.1	187.6
42.5°	222.3	217.6	203.8	187.6	173.8	166.3	168.0	169.2	169.7
45°	196.3	191.7	180.7	163.9	154.2	149.0	149.0	150.7	150.1
47.5°	173.2	169.7	158.7	142.6	133.9	131.7	132.8	133.9	133.9
50°	153.0	147.9	137.4	124.7	118.4	115.5	116.6	117.3	117.3
52.5°	133.9	130.5	120.1	108.5	102.8	101.1	101.1	101.6	101.6
55°	118.4	114.3	105.0	93.6	88.9	86.6	84.9	84.3	85.4
57.5°	103.3	99.9	91.2	80.2	75.0	72.7	69.3	68.1	69.3
60°	90.1	87.2	78.5	68.1	62.9	58.3	54.3	52.0	53.1
62.5°	78.5	75.0	66.4	57.8	52.0	46.8	40.4	36.9	38.6
65°	67.0	64.1	55.4	46.8	41.0	34.7	27.2	24.8	24.8
67.5°	56.5	53.7	45.7	38.1	31.2	23.7	16.8	16.2	16.8
70°	46.8	43.8	36.9	29.5	22.0	14.4	9.9	9.9	9.9
72.5°	38.6	35.2	28.9	21.4	13.8	7.5	5.2	5.8	5.8
75°	30.0	27.2	21.4	14.4	8.0	3.5	2.8	2.8	2.8
77.5°	22.5	20.2	15.0	9.3	4.1	1.1	1.1	1.1	1.1
80°	15.6	13.3	9.9	5.8	2.3	1.1	1.1	1.1	1.1
82.5°	9.3	8.0	5.8	2.8	1.1	0.6	0.6	0.6	0.6
85°	4.6	4.1	2.3	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	1.1	0.6	0.6	0.0	0.6	0.6	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)