

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: P583367

Luminaire Tested: **HC607D010-HM60525927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 711.1 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

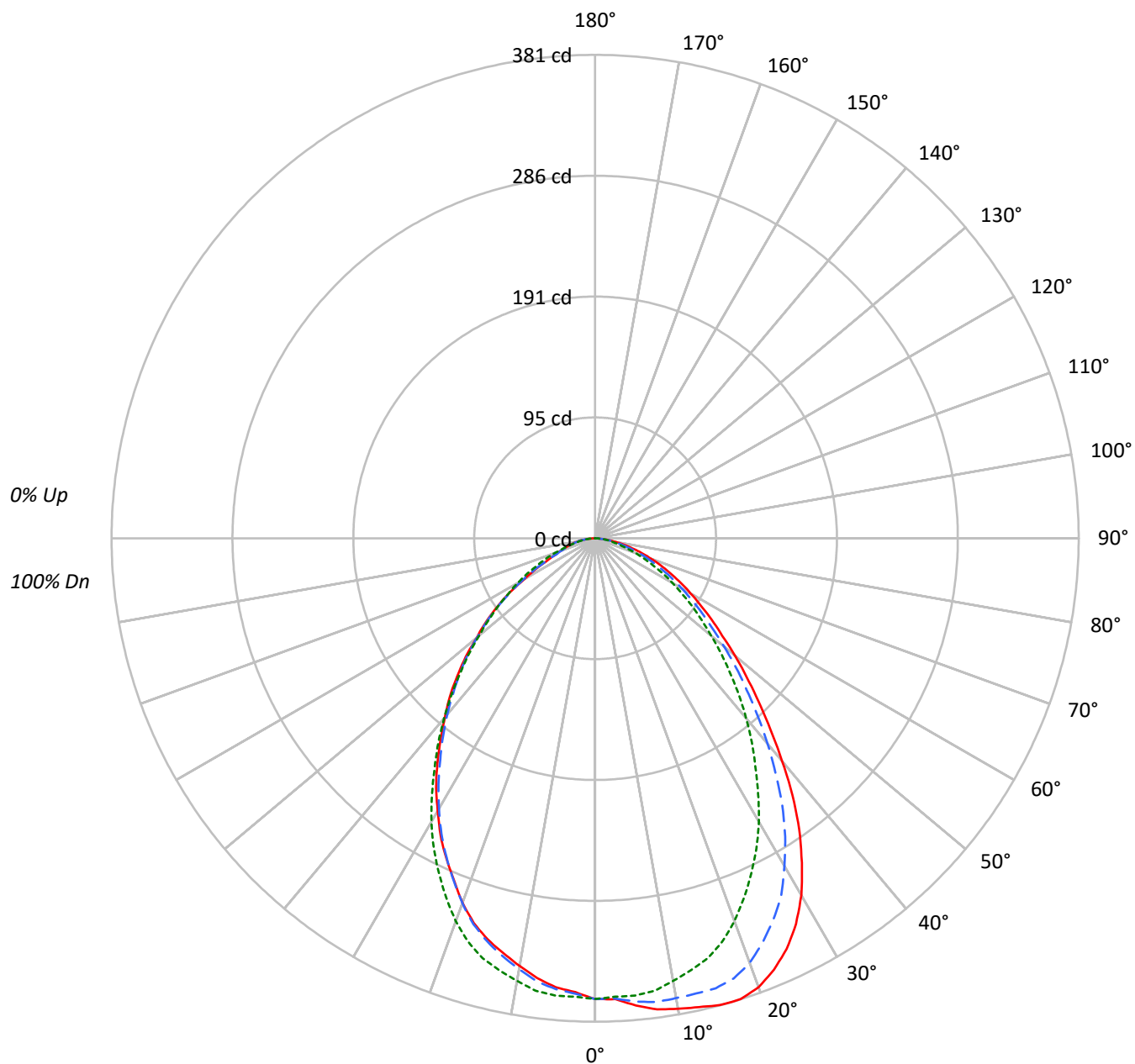
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19905	19905	19905
5°	20339	19904	19547
10°	20958	19717	19054
15°	21618	19450	18576
20°	21964	18727	17828
25°	21600	17614	16803
30°	20566	16332	15699
35°	18759	14743	14502
40°	16402	13239	13168
45°	14118	11652	11916
50°	12273	10157	10371
55°	10714	8908	9013
60°	9517	7730	7072
65°	8496	6499	5409
70°	7485	5321	4536
75°	6418	4194	4300
80°	5146	3599	4230
85°	3397	3145	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	4.8
10°-20°	97.9	13.8
20°-30°	139.7	19.6
30°-40°	146.3	20.6
40°-50°	123.2	17.3
50°-60°	87.7	12.3
60°-70°	51.3	7.2
70°-80°	24.3	3.4
80°-90°	6.2	0.9
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°	272.0	38.2
0°-40°	418.3	58.8
0°-60°	629.2	88.5
0°-90°	711.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	363	363	363	363	363	
5°	370	366	362	357	355	36
15°	381	367	343	329	327	108
25°	357	332	291	277	278	163
35°	280	257	220	213	217	174
45°	182	169	150	151	154	141
55°	112	103	93	93	94	101
65°	66	58	50	42	42	65
75°	30	25	20	19	20	32
85°	5	4	5	6	6	7
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°	363.1	363.1	363.1	363.1	363.1	363.1	363.1	363.1	363.1
2.5°	363.6	363.6	363.1	362.6	361.7	360.1	359.2	358.1	358.1
5°	369.6	368.6	366.5	364.0	361.7	358.6	356.7	355.2	355.2
7.5°	374.5	372.5	368.6	364.0	359.6	355.6	352.1	350.2	349.6
10°	376.5	374.0	368.0	361.1	354.2	348.7	344.8	342.3	342.3
12.5°	378.4	375.5	367.5	357.7	348.7	341.3	337.3	335.4	334.8
15°	380.9	376.9	367.1	354.6	342.7	334.3	328.9	327.3	327.3
17.5°	380.9	375.9	363.6	348.2	333.3	323.9	318.9	317.5	317.9
20°	376.5	371.1	356.1	337.3	321.0	311.0	306.0	305.0	305.6
22.5°	368.0	361.7	344.8	324.4	306.6	296.2	291.6	291.6	291.2
25°	357.1	350.2	331.9	310.6	291.2	280.8	277.2	277.8	277.8
27.5°	342.7	335.8	317.5	294.7	275.3	264.9	262.4	263.4	263.9
30°	324.9	317.5	298.1	275.8	258.0	247.6	246.0	247.6	248.0
32.5°	303.1	297.6	278.7	255.9	239.1	230.1	229.7	231.1	233.2
35°	280.3	274.3	257.0	236.1	220.3	212.8	212.8	215.3	216.7
37.5°	255.5	249.5	233.6	216.3	202.9	195.9	196.9	199.4	199.9
40°	229.2	224.7	211.3	196.5	185.0	179.6	181.1	183.5	184.0
42.5°	204.4	200.4	189.4	176.1	167.7	163.7	165.6	168.7	169.6
45°	182.1	177.5	168.7	157.3	150.3	148.3	150.8	152.7	153.7
47.5°	161.7	157.7	150.3	139.9	134.9	133.9	136.4	137.4	138.3
50°	143.9	139.9	132.4	123.0	119.1	119.1	121.0	122.0	121.6
52.5°	126.4	123.0	116.0	108.1	105.7	105.7	107.2	107.6	108.7
55°	112.1	108.7	102.6	95.3	93.2	92.2	93.2	93.2	94.3
57.5°	98.7	95.7	90.3	83.3	80.9	79.9	79.3	78.9	79.9
60°	86.8	84.3	78.4	72.4	70.5	68.0	65.9	64.0	64.5
62.5°	75.9	73.4	68.0	62.0	60.0	56.5	54.0	51.6	52.6
65°	65.5	63.0	58.0	53.0	50.1	46.1	42.1	40.7	41.7
67.5°	56.1	54.0	49.1	44.2	41.7	37.2	33.2	33.2	33.8
70°	46.7	44.6	40.7	36.3	33.2	29.2	27.8	28.3	28.3
72.5°	38.2	36.7	32.7	28.8	25.8	23.3	23.3	23.8	24.4
75°	30.3	29.2	25.3	21.9	19.8	18.4	19.4	19.8	20.3
77.5°	23.3	21.9	18.8	16.3	14.8	15.4	16.3	16.9	17.3
80°	16.3	15.9	13.4	11.9	11.4	11.9	12.9	13.4	13.4
82.5°	10.4	10.0	8.4	7.9	7.9	8.4	9.4	9.4	9.4
85°	5.4	5.0	4.4	4.4	5.0	5.4	6.0	6.0	6.0
87.5°	2.0	1.5	2.0	2.0	2.5	2.5	2.5	2.5	2.5
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)