

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: P583401

Luminaire Tested: **HC607D010-HM60525935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583401
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-HM60525935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 722.5 lumens
Efficiency: N/A
Efficacy: 90.3 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

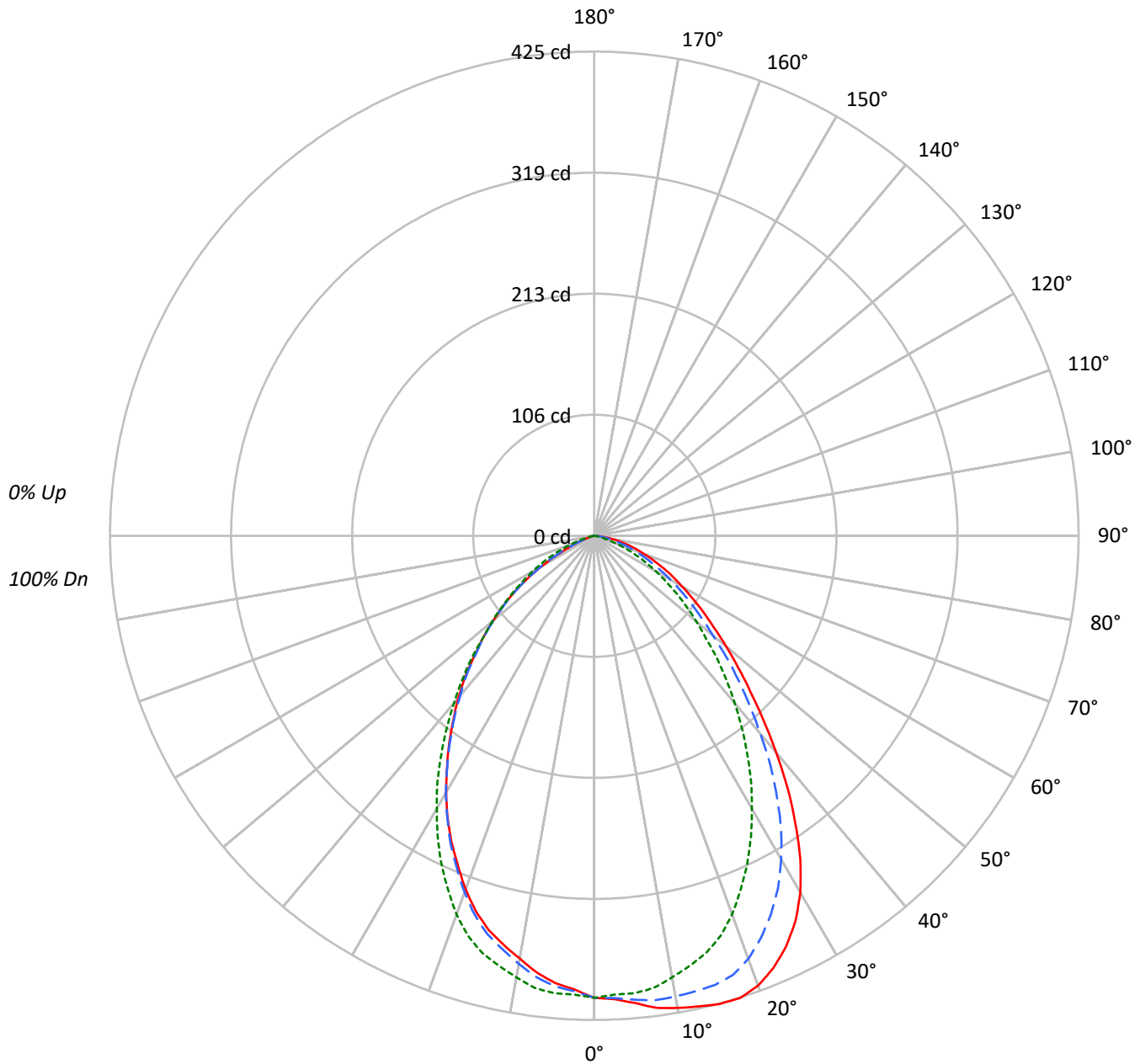
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	105	102	100		101	99	97		97	95	94		94	92	91
2	103	97	91	87	101	95	90	86		91	87	84		88	85	82		85	83	80
3	96	87	80	75	93	86	79	74		83	77	73		80	76	72		78	74	71
4	89	79	71	66	87	78	71	65		75	69	64		73	68	64		71	67	63
5	83	72	64	58	81	71	63	58		69	62	57		67	61	57		65	60	56
6	77	65	58	52	75	65	57	52		63	56	51		61	55	51		60	55	51
7	72	60	52	47	70	59	52	47		58	51	46		56	51	46		55	50	46
8	67	55	48	43	66	55	47	42		53	47	42		52	46	42		51	46	42
9	63	51	44	39	62	51	44	39		50	43	39		49	43	38		48	42	38
10	60	48	40	36	58	47	40	36		46	40	36		45	40	35		45	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22230	22230	22230
5°	22656	22182	21687
10°	23424	21905	20980
15°	24143	21521	20324
20°	24514	20628	19263
25°	24074	19211	17935
30°	22883	17509	16458
35°	20572	15653	14844
40°	17748	13711	13268
45°	15033	11807	11497
50°	12887	9970	9876
55°	11173	8392	8067
60°	9747	6820	5756
65°	8587	5241	3178
70°	7405	3462	1555
75°	6291	1673	593
80°	4862	726	347
85°	2830	377	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	5.3
10°-20°	108.2	15.0
20°-30°	152.4	21.1
30°-40°	155.7	21.5
40°-50°	125.5	17.4
50°-60°	84.2	11.7
60°-70°	42.6	5.9
70°-80°	13.6	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°	298.8	41.4
0°-40°	454.5	62.9
0°-60°	664.2	91.9
0°-90°	722.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	406	406	406	406	406	
5°	412	409	403	397	394	40
15°	425	408	379	362	358	120
25°	398	367	318	298	296	182
35°	307	279	234	221	222	191
45°	194	178	152	147	148	151
55°	117	104	88	84	84	105
65°	66	55	40	27	24	66
75°	30	21	8	3	3	32
85°	4	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°	405.5	405.5	405.5	405.5	405.5	405.5	405.5	405.5	405.5
2.5°	407.2	406.6	406.1	404.8	403.1	401.4	400.3	399.2	398.6
5°	411.7	410.6	408.9	406.6	403.1	399.2	396.9	394.6	394.1
7.5°	418.0	415.7	411.2	406.1	400.3	394.6	390.7	388.4	386.6
10°	420.8	416.8	410.6	402.0	393.5	386.6	381.5	378.1	376.9
12.5°	423.2	418.5	409.5	398.0	386.6	377.5	371.9	368.9	367.8
15°	425.4	420.8	408.3	393.5	379.2	368.3	362.1	359.3	358.1
17.5°	425.4	419.1	404.3	385.4	368.3	355.3	349.0	346.1	345.6
20°	420.2	413.4	395.2	373.0	353.6	338.8	333.0	331.3	330.2
22.5°	410.6	402.6	382.0	357.0	335.8	321.7	315.3	314.2	313.0
25°	398.0	390.1	366.6	339.9	317.6	303.4	298.2	297.1	296.5
27.5°	382.0	373.6	349.0	321.7	297.6	283.9	279.4	279.4	278.8
30°	361.5	351.8	327.9	300.5	276.6	264.0	260.6	260.6	260.0
32.5°	336.5	326.8	305.1	278.8	256.1	242.9	240.1	241.2	240.6
35°	307.4	299.3	279.4	253.8	233.9	221.8	220.7	221.8	221.8
37.5°	278.3	270.9	253.8	231.5	212.7	201.9	201.9	203.6	203.0
40°	248.0	242.3	226.4	207.0	191.6	184.2	183.1	184.8	185.4
42.5°	219.6	214.9	201.3	185.4	171.6	164.3	166.0	167.1	167.7
45°	193.9	189.3	178.4	161.9	152.3	147.2	147.2	148.9	148.3
47.5°	171.1	167.7	156.8	140.8	132.3	130.1	131.2	132.3	132.3
50°	151.1	145.9	135.7	123.2	116.9	114.1	115.2	115.8	115.8
52.5°	132.3	128.8	118.6	107.2	101.5	99.8	99.8	100.4	100.4
55°	116.9	113.0	103.8	92.3	87.8	85.5	83.8	83.3	84.4
57.5°	102.1	98.7	90.1	79.3	74.1	71.8	68.4	67.3	68.4
60°	88.9	86.1	77.5	67.3	62.2	57.6	53.6	51.3	52.5
62.5°	77.5	74.1	65.6	57.0	51.3	46.2	39.9	36.5	38.2
65°	66.2	63.3	54.7	46.2	40.4	34.2	26.9	24.5	24.5
67.5°	55.9	53.0	45.1	37.6	30.8	23.3	16.5	16.0	16.5
70°	46.2	43.4	36.5	29.1	21.6	14.3	9.7	9.7	9.7
72.5°	38.2	34.8	28.6	21.1	13.7	7.4	5.1	5.7	5.7
75°	29.7	26.9	21.1	14.3	7.9	3.4	2.8	2.8	2.8
77.5°	22.2	19.9	14.8	9.2	4.0	1.1	1.1	1.1	1.1
80°	15.4	13.1	9.7	5.7	2.3	1.1	1.1	1.1	1.1
82.5°	9.2	7.9	5.7	2.8	1.1	0.6	0.6	0.6	0.6
85°	4.5	4.0	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)