

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: P583365

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583365
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-HM60525927-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 628.7 lumens
Efficiency: N/A
Efficacy: 78.6 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

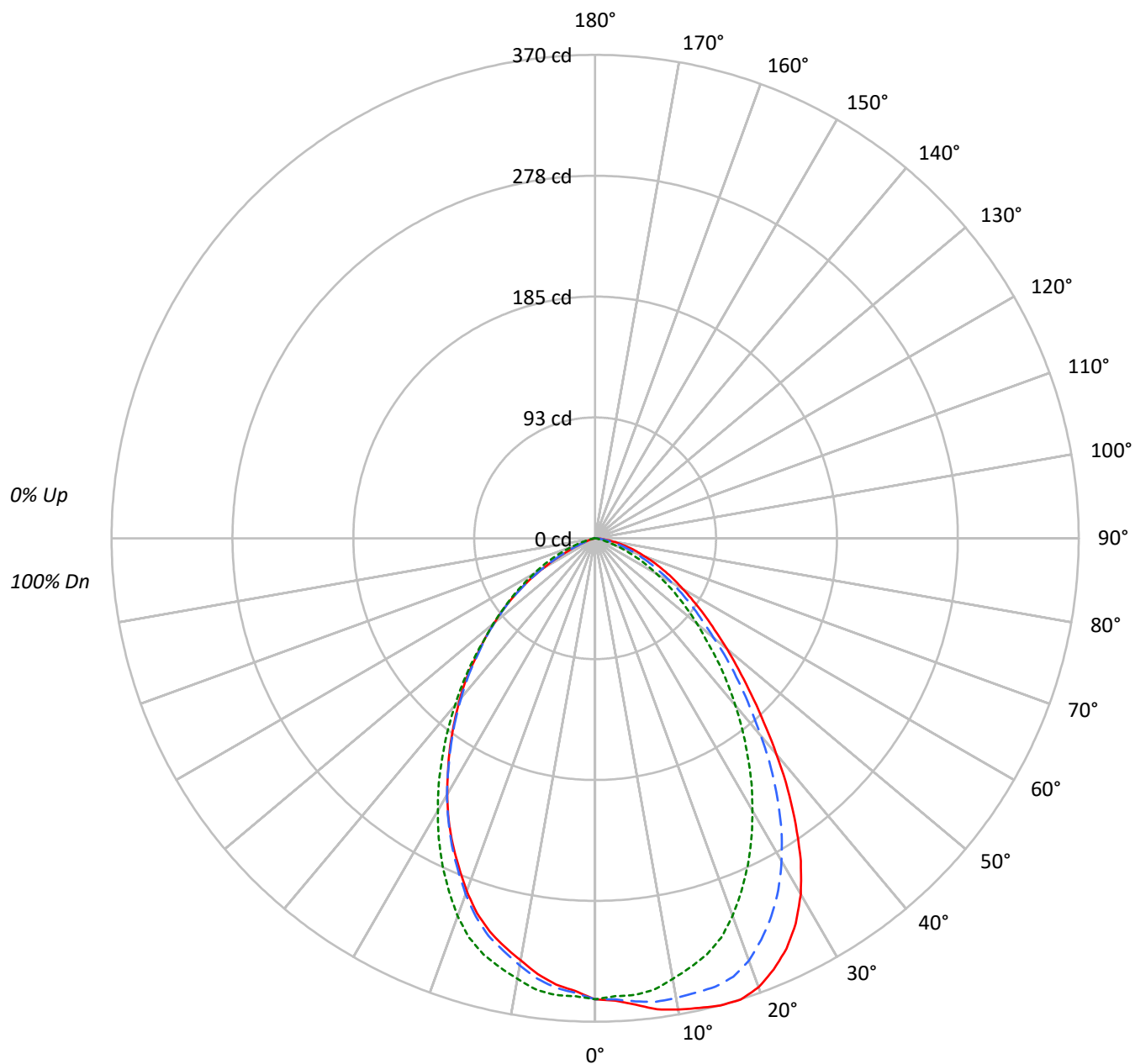
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19341	19341	19341
5°	19717	19304	18864
10°	20385	19060	18258
15°	21010	18723	17685
20°	21334	17945	16761
25°	20953	16713	15606
30°	19914	15230	14325
35°	17902	13619	12923
40°	15443	11937	11536
45°	13079	10265	10001
50°	11215	8673	8588
55°	9720	7302	7015
60°	8486	5921	5011
65°	7472	4566	2763
70°	6443	3013	1346
75°	5465	1461	530
80°	4230	631	316
85°	2516	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	5.3
10°-20°	94.1	15.0
20°-30°	132.6	21.1
30°-40°	135.5	21.5
40°-50°	109.2	17.4
50°-60°	73.3	11.7
60°-70°	37.1	5.9
70°-80°	11.8	1.9
80°-90°	1.8	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°	260.0	41.4
0°-40°	395.5	62.9
0°-60°	577.9	91.9
0°-90°	628.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	353	353	353	353	353	
5°	358	356	351	345	343	34
15°	370	355	330	315	312	105
25°	346	319	276	260	258	159
35°	268	243	204	192	193	166
45°	169	155	132	128	129	131
55°	102	90	76	73	73	92
65°	58	48	35	23	21	57
75°	26	18	7	2	2	28
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°	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8
2.5°	354.3	353.8	353.3	352.2	350.8	349.3	348.3	347.4	346.8
5°	358.3	357.2	355.8	353.8	350.8	347.4	345.3	343.4	342.8
7.5°	363.7	361.8	357.8	353.3	348.3	343.4	339.9	337.9	336.4
10°	366.2	362.7	357.2	349.9	342.4	336.4	332.0	329.0	328.0
12.5°	368.2	364.3	356.2	346.4	336.4	328.5	323.5	321.1	320.1
15°	370.2	366.2	355.3	342.4	329.9	320.5	315.1	312.6	311.6
17.5°	370.2	364.7	351.8	335.5	320.5	309.1	303.6	301.2	300.7
20°	365.7	359.7	343.9	324.5	307.6	294.7	289.8	288.2	287.3
22.5°	357.2	350.3	332.4	310.7	292.3	279.9	274.4	273.4	272.4
25°	346.4	339.4	319.1	295.7	276.3	264.0	259.5	258.6	258.0
27.5°	332.4	325.1	303.6	279.9	259.0	247.1	243.1	243.1	242.7
30°	314.6	306.1	285.3	261.5	240.6	229.8	226.7	226.7	226.3
32.5°	292.8	284.3	265.5	242.7	222.7	211.4	208.9	209.9	209.4
35°	267.5	260.5	243.1	220.8	203.5	193.1	192.0	193.1	193.1
37.5°	242.1	235.7	220.8	201.4	185.1	175.6	175.6	177.1	176.6
40°	215.8	210.9	197.0	180.1	166.8	160.3	159.3	160.8	161.2
42.5°	191.0	187.1	175.2	161.2	149.3	142.9	144.3	145.4	145.9
45°	168.7	164.7	155.3	140.9	132.4	128.0	128.0	129.5	129.0
47.5°	148.9	145.9	136.4	122.6	115.1	113.2	114.1	115.1	115.1
50°	131.5	127.0	118.1	107.2	101.7	99.3	100.3	100.7	100.7
52.5°	115.1	112.2	103.2	93.2	88.4	86.8	86.8	87.4	87.4
55°	101.7	98.2	90.3	80.3	76.4	74.4	73.0	72.4	73.4
57.5°	88.8	85.9	78.4	69.0	64.5	62.5	59.6	58.6	59.6
60°	77.4	74.9	67.5	58.6	54.0	50.1	46.7	44.6	45.7
62.5°	67.5	64.5	57.1	49.6	44.6	40.2	34.8	31.7	33.2
65°	57.6	55.1	47.6	40.2	35.2	29.8	23.3	21.3	21.3
67.5°	48.6	46.1	39.2	32.7	26.7	20.4	14.4	13.9	14.4
70°	40.2	37.7	31.7	25.3	18.8	12.3	8.4	8.4	8.4
72.5°	33.2	30.3	24.8	18.4	11.9	6.5	4.4	5.0	5.0
75°	25.8	23.3	18.4	12.3	6.9	2.9	2.5	2.5	2.5
77.5°	19.4	17.3	12.9	7.9	3.5	1.0	1.0	1.0	1.0
80°	13.4	11.4	8.4	5.0	2.0	1.0	1.0	1.0	1.0
82.5°	7.9	6.9	5.0	2.5	1.0	0.5	0.5	0.5	0.5
85°	4.0	3.5	2.0	1.0	0.5	0.5	0.5	0.5	0.5
87.5°	1.0	1.0	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



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)