

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: P583377

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 809.8 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

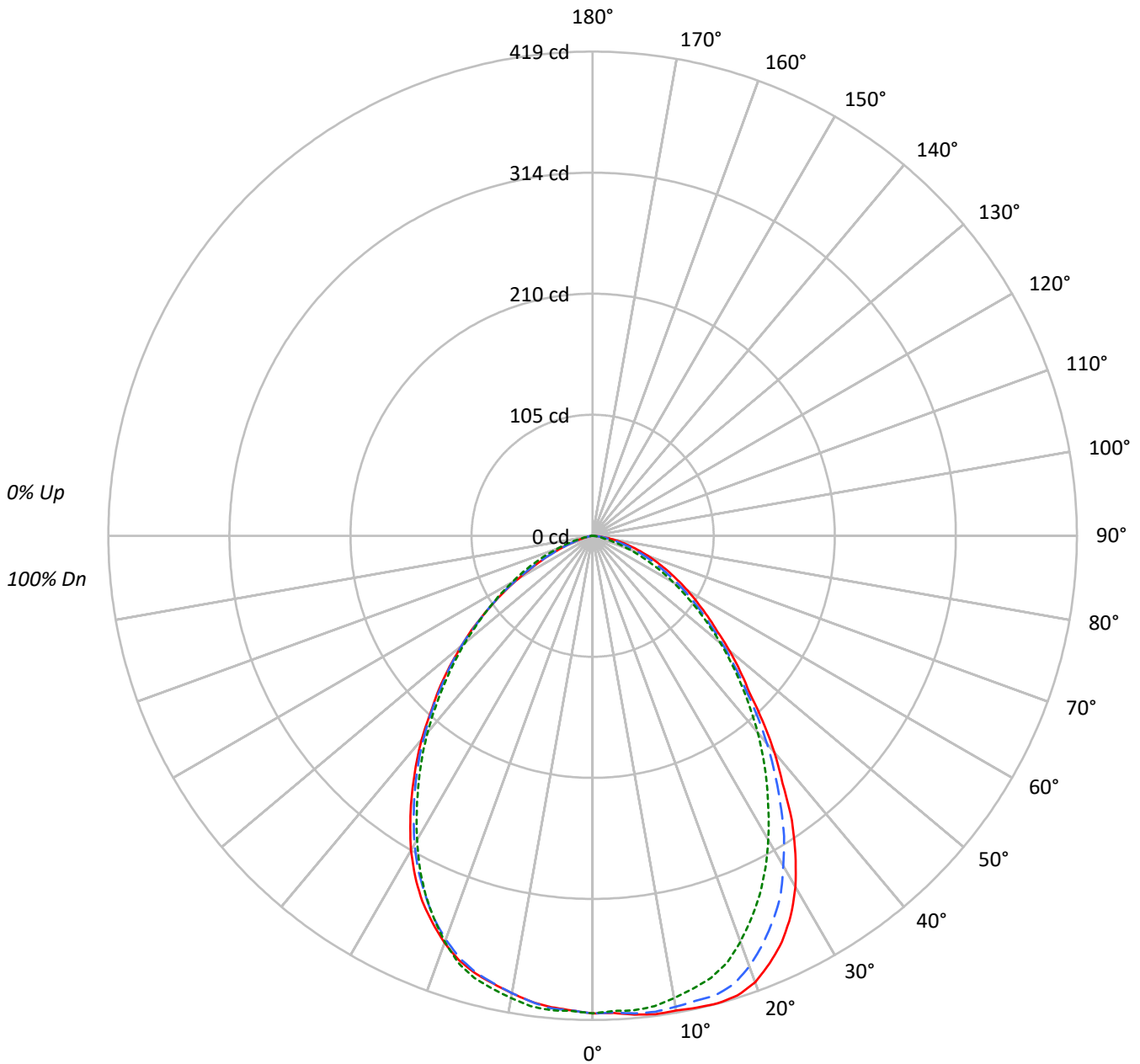
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22657	22657	22657
5°	22892	22683	22535
10°	23218	22617	22372
15°	23769	22475	22253
20°	23989	21807	21865
25°	23457	20705	21104
30°	22219	19237	19889
35°	20117	17581	18237
40°	17519	15894	16474
45°	14862	14071	14575
50°	13168	12290	12614
55°	11593	10504	10456
60°	10394	8848	8135
65°	9275	7095	5837
70°	8158	5129	3654
75°	6884	3092	2055
80°	5304	1357	852
85°	3082	377	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	4.8
10°-20°	112.8	13.9
20°-30°	163.0	20.1
30°-40°	171.5	21.2
40°-50°	144.2	17.8
50°-60°	101.2	12.5
60°-70°	55.7	6.9
70°-80°	19.8	2.4
80°-90°	2.6	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°	315.0	38.9
0°-40°	486.5	60.1
0°-60°	731.8	90.4
0°-90°	809.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	413	413	413	413	413	
5°	416	415	412	411	410	40
15°	419	412	396	391	392	118
25°	388	368	342	343	349	177
35°	301	283	263	268	272	186
45°	192	186	182	186	188	150
55°	121	115	110	110	109	109
65°	72	64	55	45	45	71
75°	32	26	15	10	10	35
85°	5	3	1	1	1	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°	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3
2.5°	413.3	413.3	412.8	412.8	411.6	411.6	411.2	411.2	411.2
5°	416.0	416.0	414.9	413.3	412.2	410.6	410.6	410.0	409.5
7.5°	417.6	417.1	415.5	413.3	410.6	407.9	406.7	407.3	406.7
10°	417.1	416.0	413.8	409.5	406.3	402.4	401.9	401.4	401.9
12.5°	418.2	416.5	412.2	406.7	401.4	397.0	396.6	396.6	397.0
15°	418.8	417.1	411.6	403.6	396.0	391.6	391.1	391.6	392.1
17.5°	417.1	414.9	406.7	396.0	387.3	383.0	383.0	384.1	385.1
20°	411.2	407.9	396.6	383.5	373.8	370.5	371.6	373.8	374.8
22.5°	400.3	396.6	383.5	368.9	358.6	355.9	358.6	361.3	362.3
25°	387.8	383.5	368.3	353.2	342.3	339.1	342.8	347.2	348.9
27.5°	371.1	366.2	352.0	334.7	323.9	322.3	326.6	331.5	332.5
30°	351.0	345.6	329.8	313.6	303.9	303.3	308.2	312.5	314.2
32.5°	326.6	321.8	308.2	292.0	283.2	283.2	288.1	292.0	293.6
35°	300.6	295.3	283.2	269.8	262.7	263.2	268.1	270.8	272.5
37.5°	269.8	268.1	258.9	247.6	242.7	243.7	247.6	249.7	251.3
40°	244.8	240.5	234.5	225.4	222.1	223.2	226.9	229.1	230.2
42.5°	217.8	215.0	210.2	203.7	201.4	203.1	206.3	208.0	207.5
45°	191.7	191.3	186.4	182.5	181.5	183.7	185.8	187.4	188.0
47.5°	172.8	170.6	166.3	163.6	162.5	164.6	166.8	167.9	167.9
50°	154.4	152.2	147.9	145.1	144.1	146.3	147.9	149.0	147.9
52.5°	136.0	133.8	130.0	126.8	126.2	127.2	127.8	128.4	129.5
55°	121.3	119.2	114.9	111.0	109.9	110.5	109.9	109.9	109.4
57.5°	107.3	105.0	100.7	96.4	94.8	94.3	92.7	92.1	91.5
60°	94.8	92.1	87.7	82.8	80.7	78.5	75.8	74.2	74.2
62.5°	82.8	80.2	75.3	70.9	67.8	63.9	59.6	57.4	57.4
65°	71.5	69.3	63.9	59.0	54.7	49.9	45.0	43.8	45.0
67.5°	60.6	58.5	53.1	48.2	42.8	36.8	32.5	32.5	33.5
70°	50.9	48.7	43.8	38.0	32.0	25.9	22.8	22.8	22.8
72.5°	41.7	39.5	34.1	28.7	22.8	16.8	15.2	15.7	15.2
75°	32.5	30.9	25.9	20.1	14.6	10.3	9.7	9.2	9.7
77.5°	24.4	22.8	18.5	13.0	8.2	6.0	5.4	5.4	5.4
80°	16.8	15.2	11.9	7.6	4.3	2.7	2.7	2.7	2.7
82.5°	10.3	8.6	6.5	3.7	1.6	1.6	1.6	1.6	1.6
85°	4.9	3.7	2.7	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)