

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: P581631

Luminaire Tested: **HC610D010-HM60525927-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581631
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: HC610D010-HM60525927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 916.2 lumens
Efficiency: N/A
Efficacy: 92.5 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

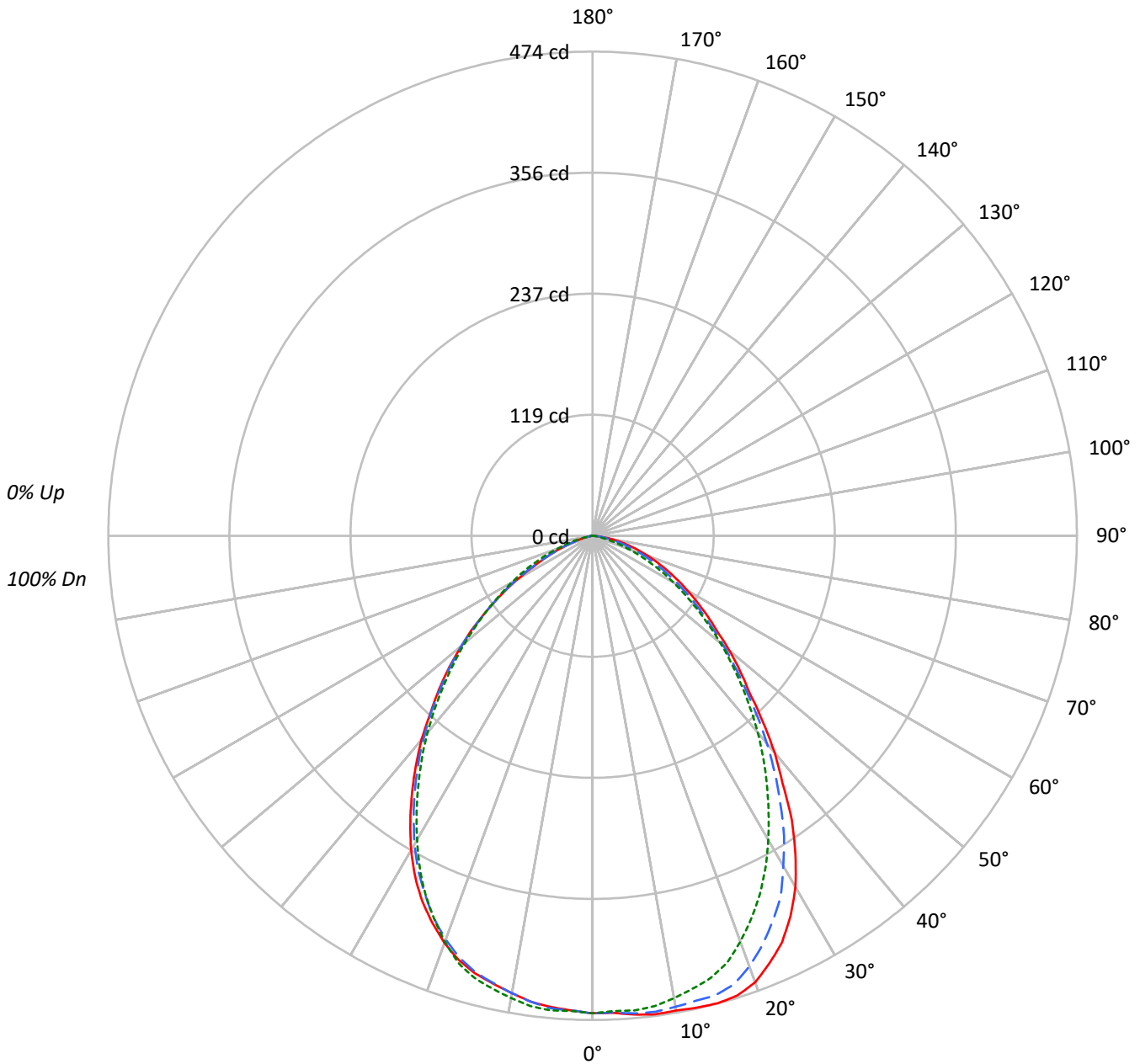
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25628	25628	25628
5°	25897	25666	25490
10°	26263	25584	25311
15°	26884	25420	25176
20°	27133	24665	24735
25°	26542	23427	23868
30°	25137	21763	22497
35°	22761	19890	20626
40°	19823	17977	18642
45°	16816	15909	16482
50°	14899	13901	14268
55°	13123	11890	11823
60°	11753	10021	9210
65°	10494	8029	6590
70°	9232	5786	4119
75°	7795	3495	2330
80°	5998	1547	979
85°	3459	377	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	4.8
10°-20°	127.6	13.9
20°-30°	184.4	20.1
30°-40°	194.0	21.2
40°-50°	163.1	17.8
50°-60°	114.5	12.5
60°-70°	63.0	6.9
70°-80°	22.4	2.4
80°-90°	2.9	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°	356.3	38.9
0°-40°	550.4	60.1
0°-60°	827.9	90.4
0°-90°	916.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	468	468	468	468	468	
5°	471	469	466	464	463	45
15°	474	466	448	442	444	134
25°	439	417	387	388	395	201
35°	340	320	297	303	308	211
45°	217	211	205	210	213	170
55°	137	130	124	124	124	124
65°	81	72	62	51	51	80
75°	37	29	16	11	11	39
85°	6	3	1	1	1	8
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°	467.5	467.5	467.5	467.5	467.5	467.5	467.5	467.5	467.5
2.5°	467.5	467.5	466.9	466.9	465.7	465.7	465.1	465.1	465.1
5°	470.6	470.6	469.4	467.5	466.4	464.5	464.5	463.9	463.2
7.5°	472.5	471.8	470.0	467.5	464.5	461.4	460.2	460.8	460.2
10°	471.8	470.6	468.2	463.2	459.6	455.3	454.7	454.0	454.7
12.5°	473.1	471.3	466.4	460.2	454.0	449.2	448.6	448.6	449.2
15°	473.7	471.8	465.7	456.5	447.9	443.1	442.4	443.1	443.6
17.5°	471.8	469.4	460.2	447.9	438.2	433.2	433.2	434.5	435.7
20°	465.1	461.4	448.6	433.9	422.8	419.2	420.4	422.8	424.0
22.5°	452.8	448.6	433.9	417.3	405.7	402.7	405.7	408.8	410.0
25°	438.8	433.9	416.7	399.5	387.3	383.6	387.9	392.8	394.6
27.5°	419.7	414.2	398.4	378.7	366.4	364.6	369.5	375.0	376.3
30°	397.1	391.0	373.2	354.8	343.8	343.1	348.7	353.5	355.4
32.5°	369.5	364.1	348.7	330.3	320.5	320.5	326.0	330.3	332.1
35°	340.1	333.9	320.5	305.2	297.2	297.8	303.4	306.4	308.2
37.5°	305.2	303.4	293.0	280.1	274.5	275.8	280.1	282.5	284.4
40°	277.0	272.1	265.3	254.9	251.2	252.4	256.7	259.2	260.5
42.5°	246.3	243.3	237.7	230.4	228.0	229.8	233.4	235.3	234.7
45°	216.9	216.3	210.8	206.5	205.2	207.7	210.2	212.0	212.6
47.5°	195.5	193.0	188.1	185.1	183.8	186.3	188.7	189.9	189.9
50°	174.7	172.2	167.3	164.3	163.0	165.5	167.3	168.6	167.3
52.5°	153.8	151.3	147.0	143.4	142.7	144.0	144.7	145.2	146.5
55°	137.3	134.8	130.0	125.7	124.4	125.0	124.4	124.4	123.7
57.5°	121.4	118.9	114.0	109.1	107.2	106.6	104.8	104.1	103.6
60°	107.2	104.1	99.3	93.7	91.4	88.9	85.8	84.0	84.0
62.5°	93.7	90.7	85.1	80.3	76.6	72.3	67.4	65.0	65.0
65°	80.9	78.4	72.3	66.8	61.9	56.4	50.8	49.6	50.8
67.5°	68.6	66.2	60.1	54.6	48.4	41.7	36.8	36.8	38.0
70°	57.6	55.1	49.6	42.9	36.1	29.4	25.7	25.7	25.7
72.5°	47.2	44.7	38.6	32.5	25.7	19.0	17.2	17.8	17.2
75°	36.8	35.0	29.4	22.6	16.5	11.7	11.0	10.4	11.0
77.5°	27.6	25.7	20.8	14.7	9.2	6.8	6.1	6.1	6.1
80°	19.0	17.2	13.5	8.6	4.9	3.1	3.1	3.1	3.1
82.5°	11.7	9.8	7.4	4.3	1.8	1.8	1.8	1.8	1.8
85°	5.5	4.3	3.1	1.2	0.6	0.6	0.6	0.6	0.6
87.5°	1.2	1.2	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)