

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: P581764

Luminaire Tested: **HC615D010-HM60525840-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525840-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1547.8 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

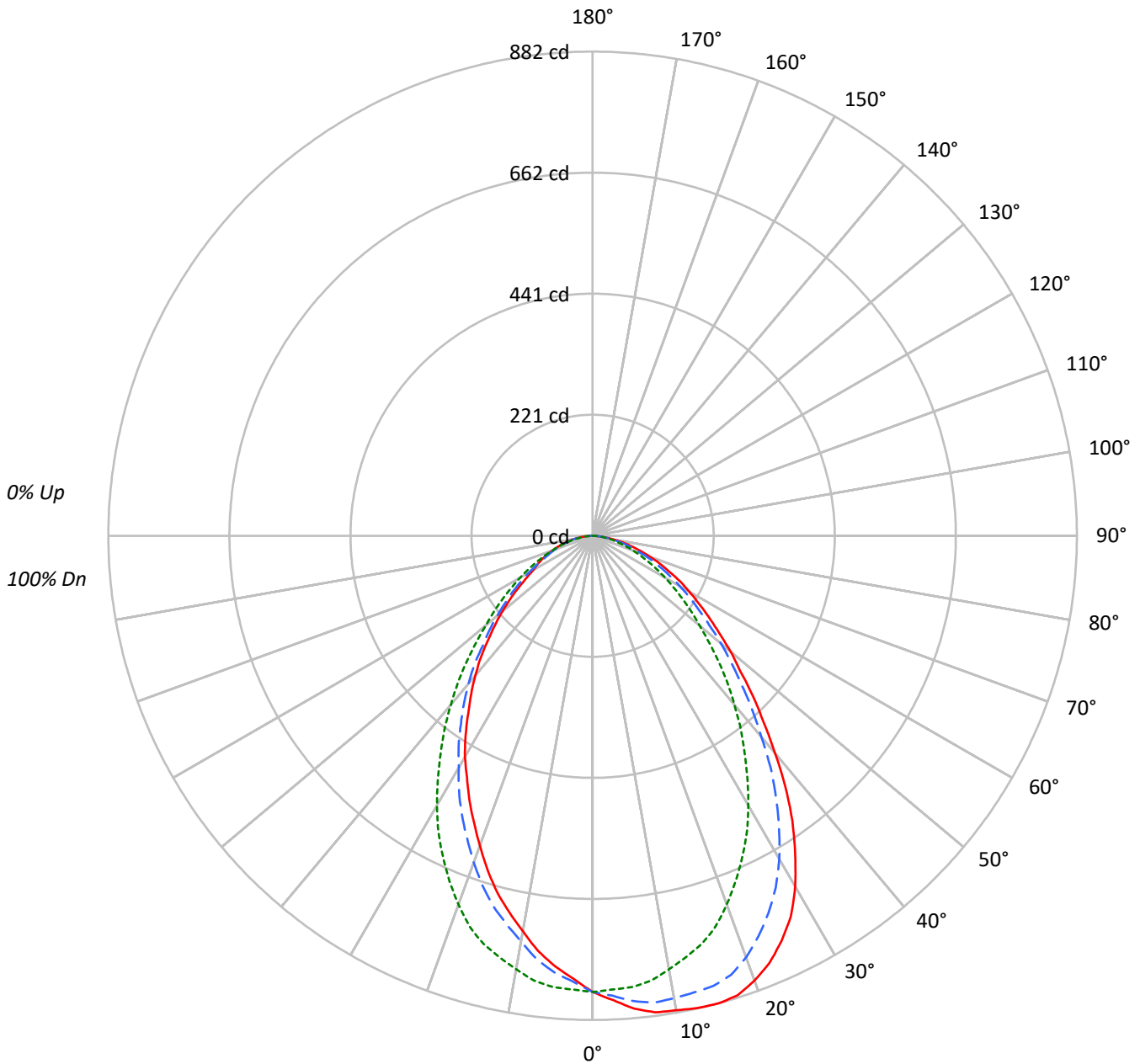
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45550	45550	45550
5°	47568	45416	43319
10°	48863	44633	40714
15°	50074	43667	38144
20°	50305	41689	35032
25°	49243	39026	32131
30°	46722	35885	29448
35°	42436	32257	26421
40°	36976	28725	23766
45°	31996	25142	20901
50°	27948	21654	18311
55°	24687	19029	15703
60°	22191	16676	13617
65°	19872	14502	13205
70°	17743	12374	12374
75°	15377	10442	11607
80°	12375	8808	10607
85°	8428	7737	9120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	5.0
10°-20°	217.1	14.0
20°-30°	302.5	19.5
30°-40°	311.7	20.1
40°-50°	258.3	16.7
50°-60°	185.7	12.0
60°-70°	118.2	7.6
70°-80°	60.7	3.9
80°-90°	15.4	1.0
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°	597.7	38.6
0°-40°	909.4	58.8
0°-60°	1353.4	87.4
0°-90°	1547.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1547.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	831	831	831	831	831	
5°	864	851	825	798	787	83
15°	882	849	769	699	672	249
25°	814	758	645	562	531	373
35°	634	583	482	418	395	394
45°	413	384	324	283	270	319
55°	258	237	199	177	164	233
65°	153	136	112	97	102	153
75°	73	63	49	51	55	78
85°	13	12	12	13	14	17
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°	830.9	830.9	830.9	830.9	830.9	830.9	830.9	830.9	830.9
2.5°	846.6	843.2	838.8	834.2	827.5	819.7	813.0	810.7	807.4
5°	864.4	860.0	851.0	839.8	825.3	810.7	798.5	790.6	787.2
7.5°	875.7	870.1	857.7	838.8	817.4	796.2	778.4	767.1	762.7
10°	877.8	872.2	855.4	829.8	801.8	772.7	750.3	737.0	731.4
12.5°	881.2	873.4	852.2	822.0	786.2	752.6	724.7	707.9	702.3
15°	882.3	873.4	848.8	811.9	769.4	729.1	698.9	678.8	672.1
17.5°	877.8	867.8	838.8	794.0	745.9	703.4	667.6	646.4	637.4
20°	862.3	851.0	817.4	767.1	714.6	669.9	633.0	610.6	600.5
22.5°	842.1	827.5	789.5	735.8	681.0	634.1	597.1	574.8	564.8
25°	814.1	800.7	758.2	701.2	645.2	596.1	562.5	539.0	531.2
27.5°	781.7	766.0	722.4	665.3	608.4	559.1	526.8	505.4	495.4
30°	738.1	723.6	680.0	622.9	566.9	521.1	487.6	469.7	465.2
32.5°	686.7	674.3	631.9	578.2	524.5	482.0	454.0	435.0	430.5
35°	634.1	619.5	582.6	532.3	482.0	444.0	418.2	401.4	394.8
37.5°	577.0	563.6	532.3	487.6	442.9	407.0	384.7	370.1	363.4
40°	516.7	506.6	477.5	441.7	401.4	370.1	351.2	338.8	332.1
42.5°	460.7	450.7	430.5	397.0	363.4	335.5	318.7	307.6	301.9
45°	412.7	403.7	383.6	354.5	324.3	300.8	283.0	275.1	269.6
47.5°	364.6	360.1	342.2	315.4	287.4	267.3	254.9	246.1	241.5
50°	327.7	322.1	305.3	277.4	253.9	238.2	227.0	219.2	214.7
52.5°	289.7	284.1	268.4	244.9	225.9	211.3	200.2	193.5	189.0
55°	258.3	253.9	237.1	215.9	199.1	186.7	176.7	168.9	164.3
57.5°	229.3	224.7	209.1	189.0	174.4	163.3	154.4	147.7	142.0
60°	202.4	199.1	183.4	164.3	152.1	140.9	133.0	127.5	124.2
62.5°	178.9	172.2	158.8	142.0	130.9	121.9	114.1	110.7	112.9
65°	153.2	149.8	136.4	121.9	111.8	102.8	97.3	99.5	101.8
67.5°	132.0	127.5	116.3	102.8	94.0	87.3	83.9	88.3	89.4
70°	110.7	106.2	96.1	85.0	77.2	72.6	72.6	76.0	77.2
72.5°	90.6	87.3	78.3	69.3	63.8	60.4	62.7	64.8	65.9
75°	72.6	69.3	62.7	54.8	49.3	49.3	51.4	53.7	54.8
77.5°	56.0	53.7	47.0	41.4	39.2	39.2	41.4	42.4	43.6
80°	39.2	36.9	33.6	30.2	27.9	30.2	32.5	32.5	33.6
82.5°	25.8	24.6	22.4	20.1	20.1	21.2	22.4	23.5	23.5
85°	13.4	13.4	12.3	11.2	12.3	13.4	13.4	14.5	14.5
87.5°	4.4	4.4	4.4	4.4	5.6	5.6	5.6	5.6	5.6
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)