

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: P582862

Luminaire Tested: **HC605D010-HM60525827-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582862
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: HC605D010-HM60525827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 614.3 lumens
Efficiency: N/A
Efficacy: 102.4 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

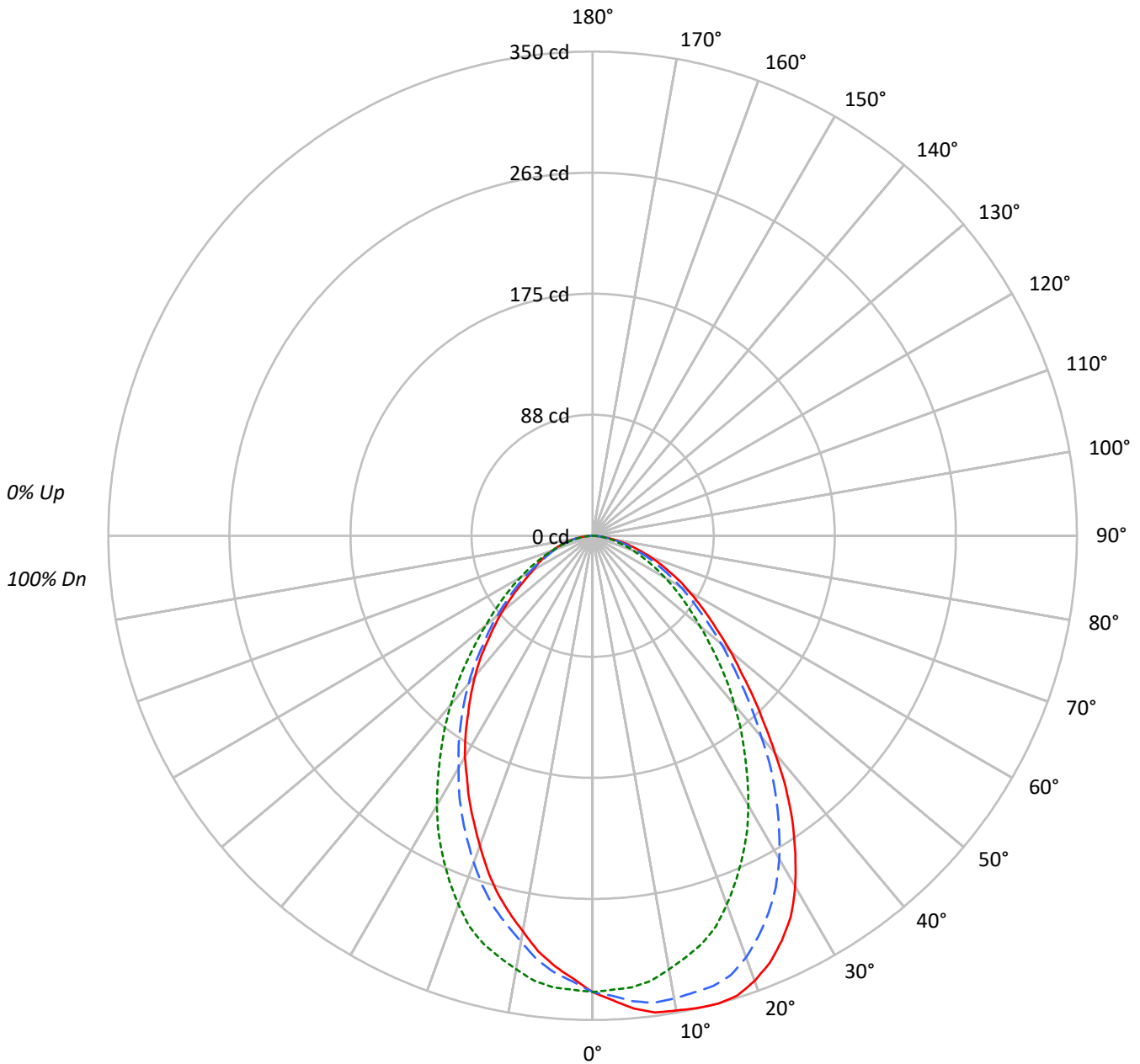
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	18080	18080	18080
5°	18881	18028	17191
10°	19394	17713	16160
15°	19875	17327	15142
20°	19969	16545	13902
25°	19550	15491	12757
30°	18541	14249	11685
35°	16845	12802	10487
40°	14677	11400	9439
45°	12691	9978	8295
50°	11096	8597	7266
55°	9797	7551	6232
60°	8804	6611	5405
65°	7887	5759	5228
70°	7052	4905	4905
75°	6100	4130	4596
80°	4893	3504	4199
85°	3334	3082	3648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	5.0
10°-20°	86.2	14.0
20°-30°	120.1	19.5
30°-40°	123.7	20.1
40°-50°	102.5	16.7
50°-60°	73.7	12.0
60°-70°	46.9	7.6
70°-80°	24.1	3.9
80°-90°	6.1	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°	237.2	38.6
0°-40°	360.9	58.8
0°-60°	537.2	87.4
0°-90°	614.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	330	330	330	330	330	
5°	343	338	328	317	312	33
15°	350	337	305	277	267	99
25°	323	301	256	223	211	148
35°	252	231	191	166	157	156
45°	164	152	129	112	107	127
55°	102	94	79	70	65	92
65°	61	54	44	39	40	61
75°	29	25	20	20	22	31
85°	5	5	5	5	6	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°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	336.1	334.7	332.9	331.1	328.5	325.3	322.7	321.8	320.5
5°	343.1	341.4	337.8	333.3	327.6	321.8	317.0	313.8	312.4
7.5°	347.6	345.3	340.5	332.9	324.4	316.1	308.9	304.5	302.7
10°	348.4	346.2	339.6	329.4	318.2	306.7	297.9	292.6	290.3
12.5°	349.7	346.7	338.2	326.2	312.0	298.8	287.6	280.9	278.8
15°	350.2	346.7	336.9	322.3	305.3	289.4	277.4	269.4	266.8
17.5°	348.4	344.4	332.9	315.2	296.1	279.2	265.0	256.5	253.0
20°	342.3	337.8	324.4	304.5	283.6	265.9	251.2	242.4	238.3
22.5°	334.3	328.5	313.3	292.1	270.3	251.7	237.1	228.1	224.2
25°	323.2	317.8	300.9	278.3	256.1	236.6	223.3	213.9	210.9
27.5°	310.3	304.1	286.7	264.1	241.5	221.9	209.0	200.6	196.6
30°	292.9	287.1	269.8	247.2	225.1	206.8	193.6	186.4	184.6
32.5°	272.6	267.7	250.7	229.5	208.1	191.3	180.2	172.7	170.9
35°	251.7	245.9	231.2	211.3	191.3	176.2	166.0	159.3	156.7
37.5°	229.1	223.7	211.3	193.6	175.7	161.6	152.7	146.9	144.3
40°	205.1	201.0	189.5	175.4	159.3	146.9	139.3	134.5	131.9
42.5°	182.8	178.9	170.9	157.5	144.3	133.1	126.4	122.0	119.9
45°	163.7	160.2	152.2	140.7	128.7	119.4	112.3	109.2	107.0
47.5°	144.8	142.9	135.8	125.2	114.1	106.1	101.2	97.6	95.8
50°	130.1	127.8	121.1	110.1	100.8	94.6	90.1	87.0	85.2
52.5°	114.9	112.8	106.6	97.2	89.6	83.8	79.4	76.8	75.0
55°	102.5	100.8	94.1	85.7	79.0	74.1	70.2	67.0	65.2
57.5°	91.0	89.3	83.1	75.0	69.3	64.7	61.2	58.5	56.4
60°	80.3	79.0	72.8	65.2	60.3	55.9	52.8	50.6	49.3
62.5°	71.0	68.4	63.1	56.4	52.0	48.4	45.3	44.0	44.9
65°	60.8	59.4	54.1	48.4	44.4	40.8	38.6	39.6	40.3
67.5°	52.4	50.6	46.2	40.8	37.3	34.6	33.3	35.0	35.5
70°	44.0	42.1	38.2	33.8	30.6	28.8	28.8	30.2	30.6
72.5°	35.9	34.6	31.1	27.6	25.3	24.0	24.9	25.8	26.2
75°	28.8	27.6	24.9	21.7	19.5	19.5	20.5	21.4	21.7
77.5°	22.1	21.4	18.6	16.4	15.5	15.5	16.4	16.8	17.3
80°	15.5	14.7	13.3	12.0	11.1	12.0	12.9	12.9	13.3
82.5°	10.2	9.7	8.9	8.0	8.0	8.5	8.9	9.3	9.3
85°	5.3	5.3	4.9	4.4	4.9	5.3	5.3	5.8	5.8
87.5°	1.8	1.8	1.8	1.8	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)