

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: P582963

Luminaire Tested: **HC605D010-HM60525935-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582963
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: HC605D010-HM60525935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.1 lumens
Efficiency: N/A
Efficacy: 107.3 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

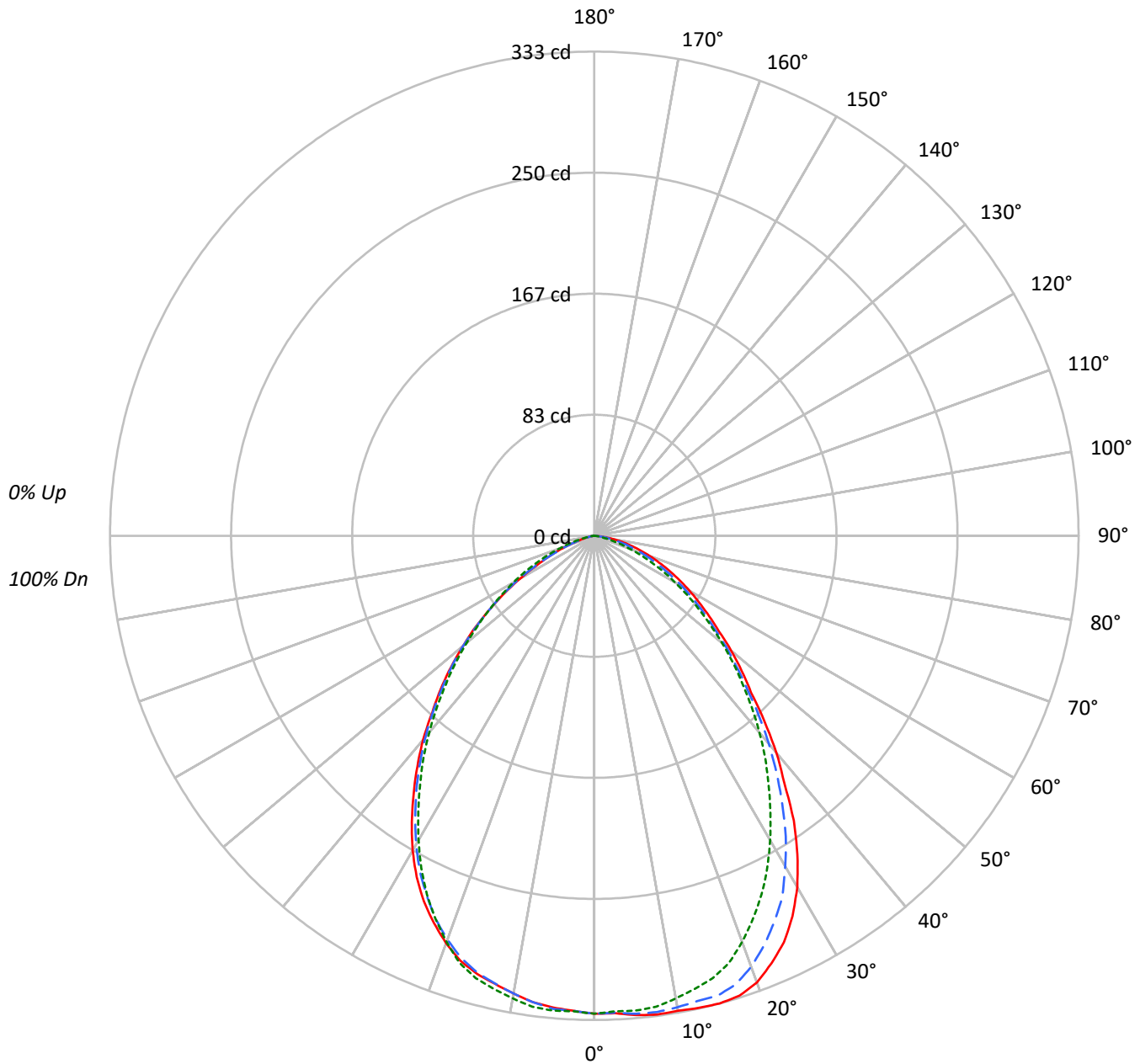
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18019	18019	18019
5°	18209	18039	17923
10°	18464	17986	17796
15°	18899	17872	17702
20°	19077	17338	17391
25°	18660	16465	16779
30°	17667	15300	15813
35°	16001	13980	14502
40°	13933	12638	13103
45°	11823	11187	11590
50°	10473	9774	10030
55°	9223	8363	8315
60°	8267	7039	6469
65°	7368	5643	4631
70°	6491	4071	2901
75°	5486	2457	1652
80°	4199	1073	663
85°	2390	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	4.8
10°-20°	89.7	13.9
20°-30°	129.6	20.1
30°-40°	136.4	21.2
40°-50°	114.7	17.8
50°-60°	80.5	12.5
60°-70°	44.3	6.9
70°-80°	15.7	2.4
80°-90°	2.1	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°	250.5	38.9
0°-40°	386.9	60.1
0°-60°	582.0	90.4
0°-90°	644.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	329	329	329	329	329	
5°	331	330	328	327	326	32
15°	333	327	315	311	312	94
25°	308	293	272	273	277	141
35°	239	225	209	213	217	148
45°	152	148	144	148	150	120
55°	96	91	88	88	87	87
65°	57	51	44	36	36	57
75°	26	21	12	8	8	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°	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7
2.5°	328.7	328.7	328.3	328.3	327.4	327.4	327.0	327.0	327.0
5°	330.9	330.9	330.0	328.7	327.8	326.6	326.6	326.1	325.7
7.5°	332.1	331.7	330.4	328.7	326.6	324.4	323.5	324.0	323.5
10°	331.7	330.9	329.2	325.7	323.1	320.1	319.7	319.2	319.7
12.5°	332.6	331.3	327.8	323.5	319.2	315.7	315.4	315.4	315.7
15°	333.0	331.7	327.4	320.9	314.9	311.4	311.0	311.4	311.9
17.5°	331.7	330.0	323.5	314.9	308.0	304.5	304.5	305.4	306.3
20°	327.0	324.4	315.4	305.0	297.2	294.7	295.5	297.2	298.1
22.5°	318.3	315.4	305.0	293.3	285.2	283.1	285.2	287.4	288.2
25°	308.5	305.0	292.9	280.9	272.2	269.7	272.7	276.2	277.4
27.5°	295.0	291.2	280.0	266.2	257.6	256.3	259.8	263.6	264.5
30°	279.1	274.8	262.4	249.4	241.7	241.3	245.1	248.6	249.8
32.5°	259.8	255.9	245.1	232.2	225.3	225.3	229.2	232.2	233.5
35°	239.1	234.8	225.3	214.6	208.9	209.4	213.2	215.4	216.7
37.5°	214.6	213.2	205.9	196.8	193.0	193.9	196.8	198.5	199.9
40°	194.7	191.3	186.6	179.2	176.6	177.5	180.5	182.3	183.1
42.5°	173.2	171.0	167.1	161.9	160.2	161.6	164.1	165.4	165.0
45°	152.5	152.1	148.1	145.2	144.3	146.0	147.8	149.0	149.5
47.5°	137.4	135.7	132.2	130.1	129.3	131.0	132.7	133.6	133.6
50°	122.8	121.0	117.6	115.5	114.6	116.3	117.6	118.4	117.6
52.5°	108.1	106.4	103.4	100.8	100.3	101.2	101.7	102.2	102.9
55°	96.5	94.8	91.3	88.4	87.5	87.9	87.5	87.5	87.0
57.5°	85.3	83.6	80.1	76.7	75.4	74.9	73.7	73.2	72.8
60°	75.4	73.2	69.8	65.9	64.2	62.5	60.3	59.0	59.0
62.5°	65.9	63.7	59.9	56.4	53.9	50.8	47.3	45.7	45.7
65°	56.8	55.1	50.8	47.0	43.5	39.7	35.7	34.9	35.7
67.5°	48.3	46.6	42.3	38.3	34.0	29.3	25.9	25.9	26.7
70°	40.5	38.8	34.9	30.2	25.4	20.7	18.1	18.1	18.1
72.5°	33.2	31.4	27.1	22.8	18.1	13.3	12.1	12.5	12.1
75°	25.9	24.5	20.7	15.9	11.6	8.1	7.8	7.3	7.8
77.5°	19.4	18.1	14.7	10.3	6.4	4.7	4.3	4.3	4.3
80°	13.3	12.1	9.5	6.0	3.4	2.1	2.1	2.1	2.1
82.5°	8.1	6.9	5.2	3.1	1.2	1.2	1.2	1.2	1.2
85°	3.8	3.1	2.1	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.9	0.9	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)