

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: P582981

Luminaire Tested: **HC605D010-HM60525940-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582981
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-HM60525940-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 652.2 lumens
Efficiency: N/A
Efficacy: 108.7 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

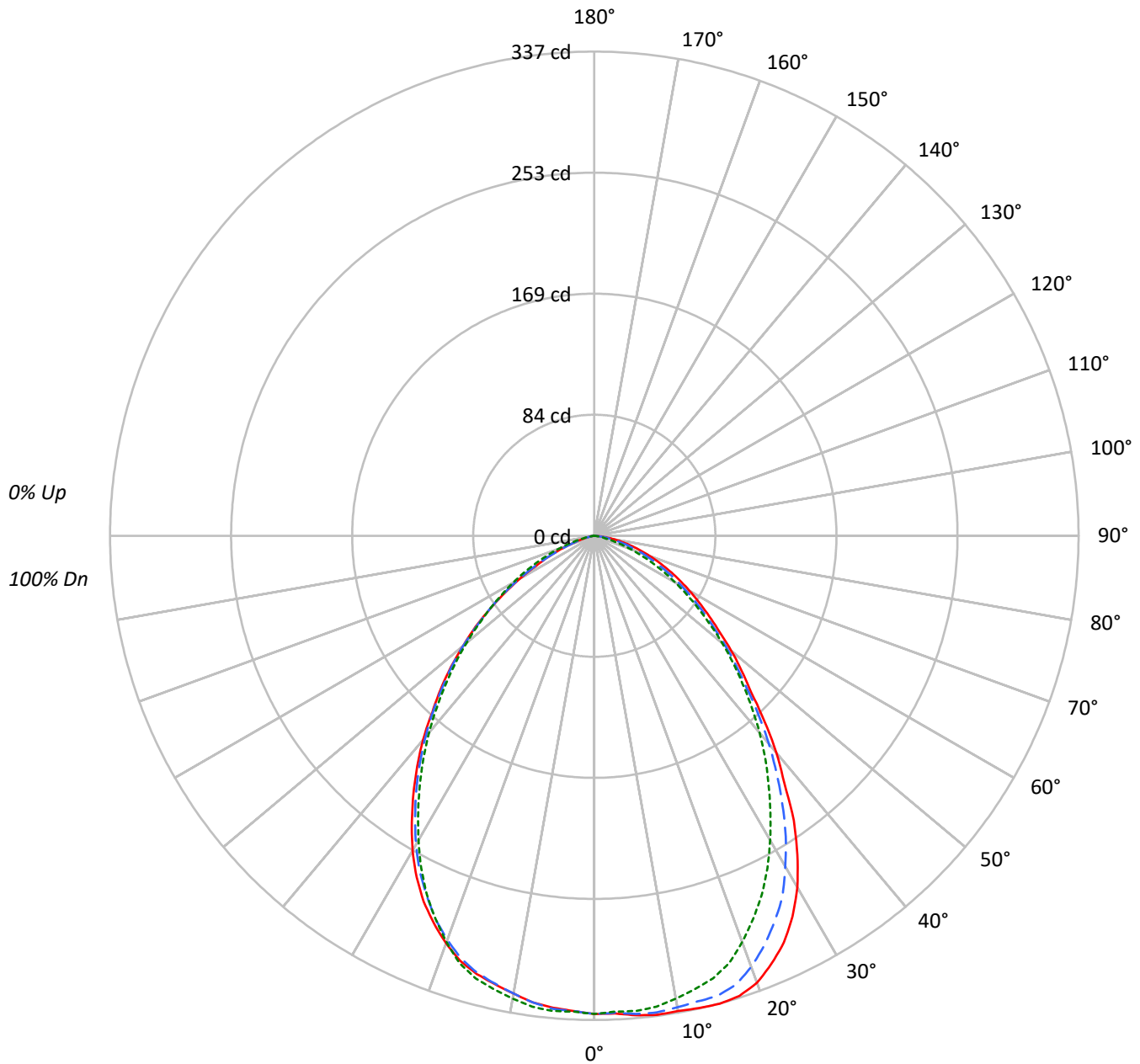
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18244	18244	18244
5°	18435	18270	18143
10°	18693	18208	18013
15°	19137	18099	17923
20°	19316	17554	17607
25°	18890	16676	16991
30°	17889	15483	16015
35°	16195	14154	14683
40°	14112	12803	13268
45°	11970	11327	11730
50°	10601	9902	10157
55°	9338	8468	8420
60°	8377	7127	6556
65°	7472	5720	4696
70°	6572	4135	2933
75°	5549	2499	1652
80°	4293	1105	663
85°	2516	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	4.8
10°-20°	90.8	13.9
20°-30°	131.2	20.1
30°-40°	138.1	21.2
40°-50°	116.1	17.8
50°-60°	81.5	12.5
60°-70°	44.8	6.9
70°-80°	15.9	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°	253.6	38.9
0°-40°	391.7	60.1
0°-60°	589.3	90.4
0°-90°	652.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	333	333	333	333	333	
5°	335	334	332	331	330	32
15°	337	332	319	315	316	95
25°	312	297	276	276	281	143
35°	242	228	212	216	219	150
45°	154	150	146	150	151	121
55°	98	92	89	89	88	88
65°	58	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°	332.8	332.8	332.8	332.8	332.8	332.8	332.8	332.8	332.8
2.5°	332.8	332.8	332.3	332.3	331.5	331.5	331.1	331.1	331.1
5°	335.0	335.0	334.1	332.8	332.0	330.6	330.6	330.2	329.7
7.5°	336.3	335.8	334.6	332.8	330.6	328.5	327.6	328.0	327.6
10°	335.8	335.0	333.2	329.7	327.1	324.1	323.6	323.2	323.6
12.5°	336.7	335.4	332.0	327.6	323.2	319.7	319.3	319.3	319.7
15°	337.2	335.8	331.5	325.0	318.9	315.4	314.9	315.4	315.8
17.5°	335.8	334.1	327.6	318.9	311.9	308.4	308.4	309.3	310.2
20°	331.1	328.5	319.3	308.8	300.9	298.3	299.2	300.9	301.8
22.5°	322.4	319.3	308.8	297.1	288.7	286.6	288.7	291.0	291.8
25°	312.3	308.8	296.6	284.4	275.7	273.0	276.1	279.6	280.9
27.5°	298.8	294.8	283.5	269.6	260.8	259.6	263.1	266.9	267.8
30°	282.6	278.3	265.7	252.6	244.6	244.3	248.1	251.7	253.0
32.5°	263.1	259.1	248.1	235.2	228.1	228.1	232.1	235.2	236.4
35°	242.0	237.8	228.1	217.2	211.5	212.0	215.9	218.1	219.4
37.5°	217.2	215.9	208.5	199.3	195.4	196.3	199.3	201.0	202.4
40°	197.2	193.7	188.8	181.5	178.9	179.7	182.7	184.5	185.4
42.5°	175.4	173.1	169.3	164.0	162.3	163.6	166.2	167.5	167.0
45°	154.4	154.0	150.1	147.0	146.1	147.9	149.6	151.0	151.3
47.5°	139.1	137.4	133.9	131.8	130.9	132.5	134.4	135.3	135.3
50°	124.3	122.6	119.1	116.8	116.1	117.7	119.1	120.0	119.1
52.5°	109.5	107.7	104.6	102.0	101.6	102.5	102.9	103.4	104.3
55°	97.7	95.9	92.4	89.4	88.6	88.9	88.6	88.6	88.1
57.5°	86.3	84.6	81.1	77.6	76.4	75.9	74.6	74.1	73.7
60°	76.4	74.1	70.6	66.8	65.0	63.3	61.0	59.8	59.8
62.5°	66.8	64.5	60.7	57.2	54.6	51.4	48.0	46.2	46.2
65°	57.6	55.8	51.4	47.6	44.1	40.1	36.2	35.4	36.2
67.5°	48.8	47.1	42.7	38.9	34.5	29.6	26.2	26.2	27.0
70°	41.0	39.2	35.4	30.5	25.8	20.9	18.3	18.3	18.3
72.5°	33.6	31.9	27.5	23.2	18.3	13.6	12.2	12.7	12.2
75°	26.2	24.9	20.9	16.2	11.8	8.2	7.8	7.5	7.8
77.5°	19.7	18.3	14.8	10.5	6.6	4.7	4.4	4.4	4.4
80°	13.6	12.2	9.6	6.1	3.5	2.1	2.1	2.1	2.1
82.5°	8.2	7.0	5.2	3.1	1.4	1.4	1.4	1.4	1.4
85°	4.0	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)