

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: P582969

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 545.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

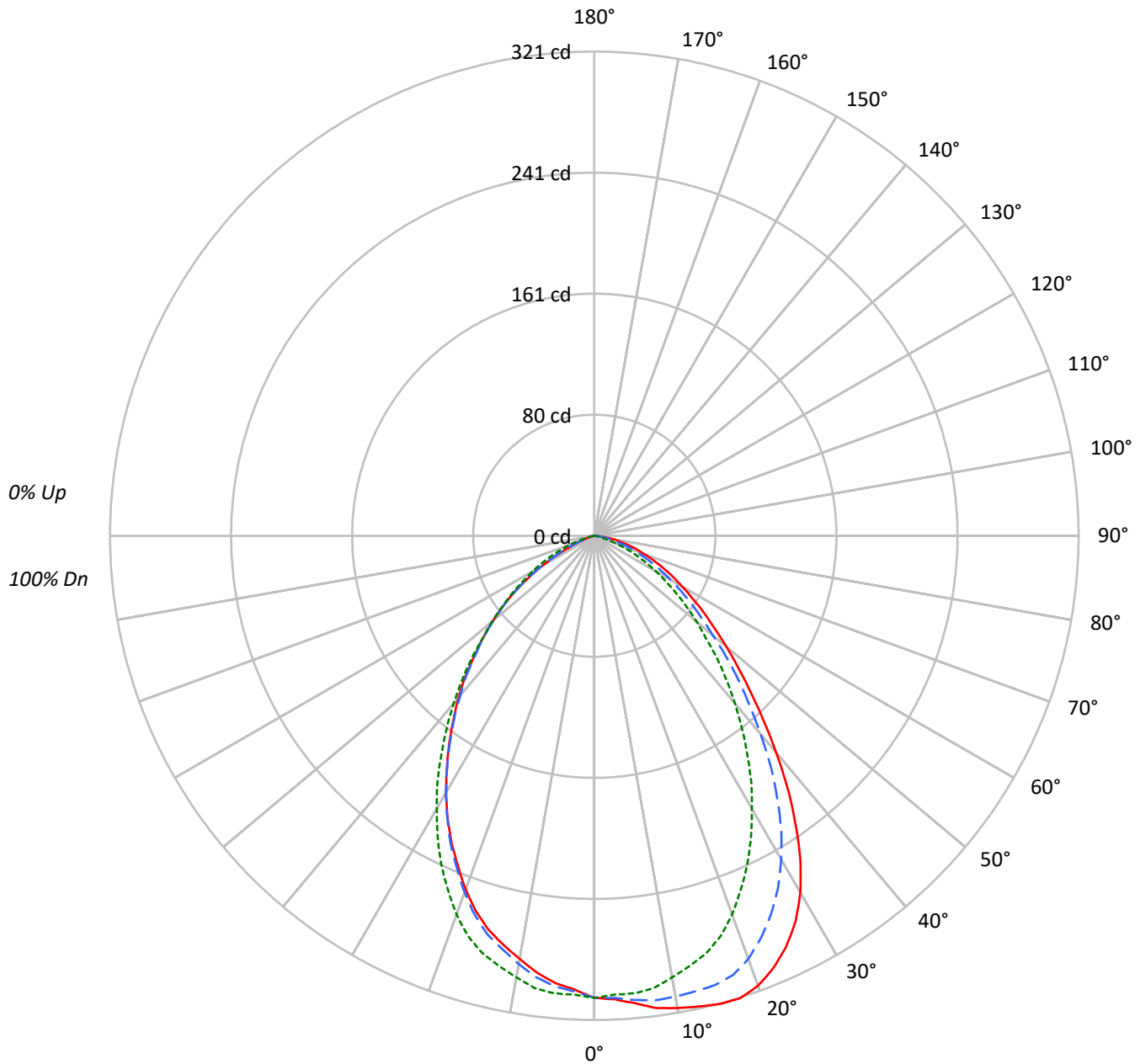
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	108	104	101	109	105	102	100		101	99	97			97	95	94			94
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			85
3	96	87	80	75	93	86	79	74		83	77	73			80	76	72			78
4	89	79	71	66	87	78	71	65		75	69	64			73	68	64			71
5	83	72	64	58	81	71	63	58		69	62	57			67	61	57			65
6	77	65	58	52	75	65	57	52		63	56	51			61	55	51			60
7	72	60	52	47	70	59	52	47		58	51	46			56	51	46			55
8	67	55	48	43	66	55	47	42		53	47	42			52	46	42			51
9	63	51	44	39	62	51	44	39		50	43	39			49	43	38			48
10	60	48	40	36	58	47	40	36		46	40	36			45	40	35			45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16791	16791	16791
5°	17120	16757	16377
10°	17702	16549	15854
15°	18241	16260	15352
20°	18522	15582	14550
25°	18189	14517	13549
30°	17287	13224	12432
35°	15540	11819	11216
40°	13411	10362	10019
45°	11350	8916	8683
50°	9731	7539	7462
55°	8449	6337	6088
60°	7368	5153	4353
65°	6473	3969	2400
70°	5594	2629	1170
75°	4745	1271	445
80°	3662	537	284
85°	2139	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	5.3
10°-20°	81.7	15.0
20°-30°	115.1	21.1
30°-40°	117.6	21.5
40°-50°	94.8	17.4
50°-60°	63.6	11.6
60°-70°	32.2	5.9
70°-80°	10.3	1.9
80°-90°	1.6	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°	225.7	41.4
0°-40°	343.4	62.9
0°-60°	501.8	91.9
0°-90°	545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	306	306	306	306	306	
5°	311	309	304	300	298	30
15°	321	308	286	274	270	91
25°	301	277	240	225	224	138
35°	232	211	177	167	168	144
45°	146	135	115	111	112	114
55°	88	78	66	63	64	79
65°	50	41	31	20	18	50
75°	22	16	6	2	2	24
85°	3	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°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	307.6	307.1	306.7	305.9	304.5	303.3	302.4	301.6	301.1
5°	311.1	310.2	308.9	307.1	304.5	301.6	299.8	298.1	297.6
7.5°	315.8	314.0	310.6	306.7	302.4	298.1	295.2	293.3	292.1
10°	318.0	314.9	310.2	303.7	297.3	292.1	288.3	285.7	284.8
12.5°	319.7	316.2	309.3	300.7	292.1	285.2	280.9	278.8	277.9
15°	321.4	318.0	308.5	297.3	286.5	278.3	273.6	271.4	270.5
17.5°	321.4	316.6	305.4	291.2	278.3	268.4	263.6	261.5	261.0
20°	317.5	312.3	298.5	281.7	267.1	255.9	251.5	250.3	249.4
22.5°	310.2	304.2	288.6	269.7	253.8	243.0	238.2	237.4	236.5
25°	300.7	294.7	277.0	256.7	240.0	229.2	225.3	224.4	224.0
27.5°	288.6	282.2	263.6	243.0	224.9	214.6	211.1	211.1	210.6
30°	273.1	265.8	247.7	227.0	208.9	199.4	196.8	196.8	196.4
32.5°	254.1	246.9	230.5	210.6	193.5	183.5	181.4	182.3	181.8
35°	232.2	226.2	211.1	191.8	176.6	167.6	166.7	167.6	167.6
37.5°	210.2	204.6	191.8	174.9	160.7	152.5	152.5	153.8	153.3
40°	187.4	183.1	171.1	156.4	144.8	139.1	138.3	139.6	140.0
42.5°	165.9	162.4	152.1	140.0	129.7	124.1	125.3	126.2	126.7
45°	146.4	143.1	134.8	122.4	115.0	111.2	111.2	112.4	112.0
47.5°	129.3	126.7	118.4	106.4	99.9	98.2	99.1	99.9	99.9
50°	114.1	110.3	102.5	93.0	88.4	86.1	87.0	87.5	87.5
52.5°	99.9	97.4	89.6	81.0	76.7	75.4	75.4	75.8	75.8
55°	88.4	85.3	78.4	69.8	66.3	64.6	63.3	62.9	63.7
57.5°	77.1	74.6	68.0	59.9	56.0	54.2	51.6	50.8	51.6
60°	67.2	65.1	58.5	50.8	47.0	43.5	40.5	38.8	39.7
62.5°	58.5	56.0	49.5	43.1	38.8	34.9	30.2	27.6	28.8
65°	49.9	47.8	41.4	34.9	30.6	25.9	20.2	18.5	18.5
67.5°	42.3	40.1	34.0	28.5	23.3	17.6	12.5	12.1	12.5
70°	34.9	32.8	27.6	21.9	16.4	10.7	7.3	7.3	7.3
72.5°	28.8	26.3	21.6	15.9	10.3	5.6	3.8	4.3	4.3
75°	22.4	20.2	15.9	10.7	6.0	2.6	2.1	2.1	2.1
77.5°	16.8	15.0	11.2	6.9	3.1	0.9	0.9	0.9	0.9
80°	11.6	9.9	7.3	4.3	1.7	0.9	0.9	0.9	0.9
82.5°	6.9	6.0	4.3	2.1	0.9	0.5	0.5	0.5	0.5
85°	3.4	3.1	1.7	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)