

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: P592997

Luminaire Tested: **HC605D010-HM60525850-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P592997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525850-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 717.5 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

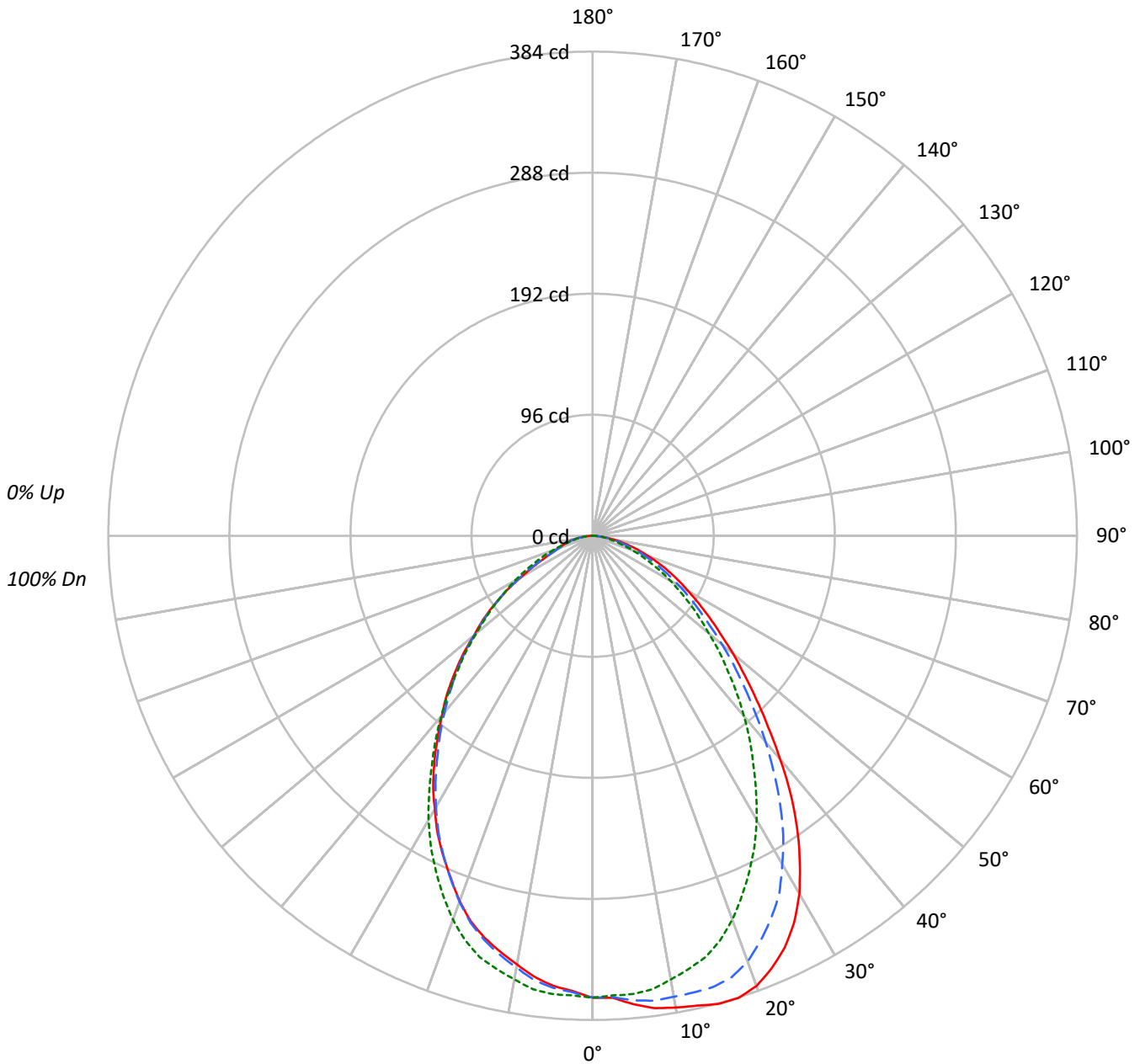
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52																			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20081	20081	20081
5°	20521	20080	19717
10°	21147	19889	19221
15°	21816	19631	18746
20°	22163	18896	17986
25°	21800	17771	16949
30°	20750	16471	15844
35°	18919	14877	14643
40°	16545	13361	13289
45°	14242	11753	12025
50°	12375	10243	10456
55°	10810	8994	9089
60°	9604	7795	7138
65°	8574	6551	5448
70°	7533	5386	4568
75°	6460	4236	4363
80°	5209	3631	4293
85°	3459	3145	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	4.8
10°-20°	98.7	13.8
20°-30°	141.0	19.6
30°-40°	147.7	20.6
40°-50°	124.3	17.3
50°-60°	88.5	12.3
60°-70°	51.8	7.2
70°-80°	24.5	3.4
80°-90°	6.3	0.9
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°	274.4	38.2
0°-40°	422.1	58.8
0°-60°	634.9	88.5
0°-90°	717.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	366	366	366	366	366	
5°	373	370	365	360	358	36
15°	384	370	346	332	330	108
25°	360	335	294	280	280	165
35°	283	259	222	215	219	176
45°	184	170	152	152	155	143
55°	113	104	94	94	95	102
65°	66	58	50	42	42	66
75°	30	26	20	20	21	33
85°	6	4	5	6	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°	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3
2.5°	366.9	366.9	366.3	365.9	364.9	363.4	362.4	361.4	361.4
5°	372.9	371.9	369.8	367.4	364.9	361.8	359.9	358.3	358.3
7.5°	377.9	375.8	371.9	367.4	362.8	358.9	355.4	353.4	352.9
10°	379.9	377.4	371.3	364.3	357.3	351.9	347.8	345.3	345.3
12.5°	381.8	378.9	370.9	360.8	351.9	344.3	340.4	338.3	337.9
15°	384.4	380.4	370.4	357.9	345.9	337.3	331.9	330.3	330.3
17.5°	384.4	379.3	366.9	351.3	336.3	326.8	321.8	320.4	320.8
20°	379.9	374.4	359.3	340.4	323.9	313.8	308.8	307.8	308.3
22.5°	371.3	364.9	347.8	327.4	309.3	298.8	294.3	294.3	293.8
25°	360.4	353.4	334.8	313.3	293.8	283.3	279.8	280.2	280.2
27.5°	345.9	338.9	320.4	297.3	277.8	267.2	264.8	265.8	266.2
30°	327.8	320.4	300.8	278.3	260.2	249.7	248.3	249.7	250.3
32.5°	305.8	300.4	281.3	258.2	241.3	232.2	231.8	233.2	235.3
35°	282.7	276.7	259.2	238.2	222.3	214.7	214.7	217.2	218.8
37.5°	257.8	251.8	235.7	218.2	204.8	197.7	198.7	201.3	201.7
40°	231.2	226.7	213.2	198.2	186.7	181.1	182.7	185.2	185.7
42.5°	206.2	202.2	191.2	177.6	169.2	165.2	167.1	170.2	171.2
45°	183.7	179.2	170.2	158.7	151.6	149.6	152.1	154.1	155.1
47.5°	163.2	159.1	151.6	141.1	136.2	135.1	137.6	138.7	139.7
50°	145.1	141.1	133.7	124.1	120.1	120.1	122.2	123.2	122.6
52.5°	127.6	124.1	117.1	109.2	106.6	106.6	108.1	108.6	109.6
55°	113.1	109.6	103.6	96.0	94.1	93.1	94.1	94.1	95.1
57.5°	99.6	96.6	91.1	84.1	81.6	80.6	80.1	79.6	80.6
60°	87.6	85.1	79.1	73.1	71.1	68.6	66.6	64.5	65.1
62.5°	76.6	74.1	68.6	62.6	60.6	57.1	54.6	52.1	53.0
65°	66.1	63.6	58.5	53.6	50.5	46.6	42.5	41.0	42.0
67.5°	56.5	54.6	49.5	44.5	42.0	37.5	33.6	33.6	34.0
70°	47.0	45.1	41.0	36.5	33.6	29.5	28.0	28.5	28.5
72.5°	38.5	37.1	33.0	29.0	26.0	23.5	23.5	24.1	24.5
75°	30.5	29.5	25.5	22.0	20.0	18.5	19.5	20.0	20.6
77.5°	23.5	22.0	19.0	16.5	15.0	15.5	16.5	17.1	17.5
80°	16.5	16.0	13.6	12.0	11.5	12.0	13.0	13.6	13.6
82.5°	10.5	10.1	8.5	8.0	8.0	8.5	9.5	9.5	9.5
85°	5.5	5.0	4.5	4.5	5.0	5.5	6.0	6.0	6.0
87.5°	2.0	1.5	2.0	2.0	2.5	2.5	2.5	2.5	2.5
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)