

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: P582989

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582989
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-HM60525940-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 625.1 lumens
Efficiency: N/A
Efficacy: 104.2 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

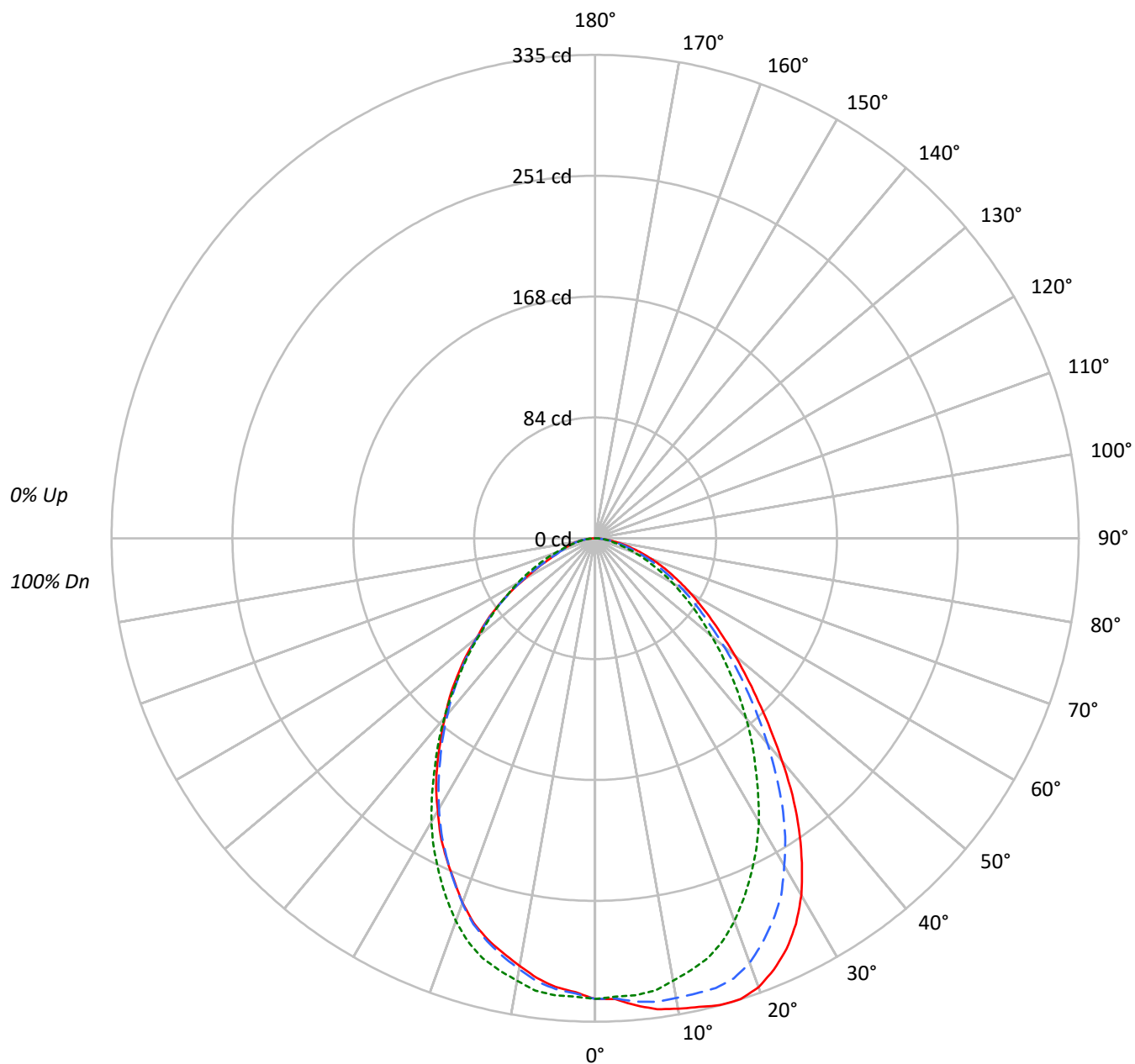
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	17499	17499	17499
5°	17879	17494	17180
10°	18425	17329	16750
15°	19007	17100	16334
20°	19310	16463	15670
25°	18987	15479	14771
30°	18085	14357	13800
35°	16483	12956	12749
40°	14420	11636	11579
45°	12404	10241	10474
50°	10780	8921	9108
55°	9414	7828	7914
60°	8366	6787	6217
65°	7459	5720	4748
70°	6572	4696	3991
75°	5634	3685	3791
80°	4546	3189	3725
85°	2956	2768	3271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	4.8
10°-20°	86.0	13.8
20°-30°	122.8	19.6
30°-40°	128.6	20.6
40°-50°	108.3	17.3
50°-60°	77.1	12.3
60°-70°	45.1	7.2
70°-80°	21.4	3.4
80°-90°	5.5	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°	239.1	38.2
0°-40°	367.7	58.8
0°-60°	553.1	88.5
0°-90°	625.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	319	319	319	319	319	
5°	325	322	318	314	312	31
15°	335	323	301	289	288	95
25°	314	292	256	244	244	144
35°	246	226	194	187	190	153
45°	160	148	132	132	135	124
55°	98	90	82	82	83	89
65°	58	51	44	37	37	57
75°	27	22	17	17	18	29
85°	5	4	4	5	5	6
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°	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2
2.5°	319.7	319.7	319.2	318.8	317.9	316.6	315.7	314.8	314.8
5°	324.9	324.0	322.3	320.0	317.9	315.3	313.6	312.2	312.2
7.5°	329.2	327.5	324.0	320.0	316.2	312.7	309.6	307.8	307.5
10°	331.0	328.8	323.5	317.4	311.3	306.6	303.1	300.9	300.9
12.5°	332.7	330.1	323.1	314.4	306.6	300.0	296.5	294.8	294.4
15°	334.9	331.4	322.7	311.8	301.3	293.9	289.1	287.8	287.8
17.5°	334.9	330.5	319.7	306.1	293.0	284.8	280.4	279.1	279.6
20°	331.0	326.1	313.1	296.5	282.2	273.5	269.1	268.1	268.6
22.5°	323.5	317.9	303.1	285.2	269.5	260.4	256.4	256.4	255.9
25°	313.9	307.8	291.8	273.0	255.9	246.8	243.7	244.2	244.2
27.5°	301.3	295.2	279.1	259.0	242.0	232.9	230.6	231.5	232.0
30°	285.7	279.1	262.0	242.5	226.8	217.6	216.3	217.6	218.0
32.5°	266.5	261.6	245.1	225.0	210.2	202.4	201.9	203.2	205.0
35°	246.3	241.1	225.9	207.6	193.6	187.0	187.0	189.3	190.5
37.5°	224.5	219.3	205.4	190.1	178.3	172.2	173.1	175.3	175.7
40°	201.5	197.5	185.8	172.7	162.6	157.9	159.1	161.4	161.8
42.5°	179.7	176.2	166.6	154.8	147.4	143.8	145.7	148.3	149.2
45°	160.0	156.1	148.3	138.2	132.1	130.4	132.5	134.4	135.1
47.5°	142.2	138.7	132.1	122.9	118.6	117.7	119.9	120.8	121.7
50°	126.4	122.9	116.4	108.1	104.6	104.6	106.4	107.2	106.8
52.5°	111.2	108.1	102.0	95.0	92.9	92.9	94.2	94.6	95.5
55°	98.5	95.5	90.3	83.7	81.9	81.1	81.9	81.9	82.8
57.5°	86.8	84.2	79.3	73.2	71.1	70.2	69.7	69.4	70.2
60°	76.3	74.1	68.9	63.6	61.9	59.8	58.0	56.3	56.7
62.5°	66.7	64.5	59.8	54.5	52.8	49.7	47.6	45.3	46.2
65°	57.5	55.4	51.0	46.7	44.1	40.6	37.1	35.7	36.6
67.5°	49.3	47.6	43.2	38.8	36.6	32.7	29.3	29.3	29.6
70°	41.0	39.2	35.7	31.9	29.3	25.8	24.4	24.9	24.9
72.5°	33.6	32.3	28.8	25.3	22.7	20.5	20.5	20.9	21.4
75°	26.6	25.8	22.3	19.2	17.4	16.2	17.0	17.4	17.9
77.5°	20.5	19.2	16.6	14.4	13.1	13.6	14.4	14.8	15.3
80°	14.4	13.9	11.8	10.5	10.1	10.5	11.3	11.8	11.8
82.5°	9.2	8.7	7.5	7.0	7.0	7.5	8.2	8.2	8.2
85°	4.7	4.4	4.0	4.0	4.4	4.7	5.2	5.2	5.2
87.5°	1.7	1.4	1.7	1.7	2.1	2.1	2.1	2.1	2.1
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)