

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: P582916

Luminaire Tested: **HC605D010-HM60525840-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525840-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 693.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

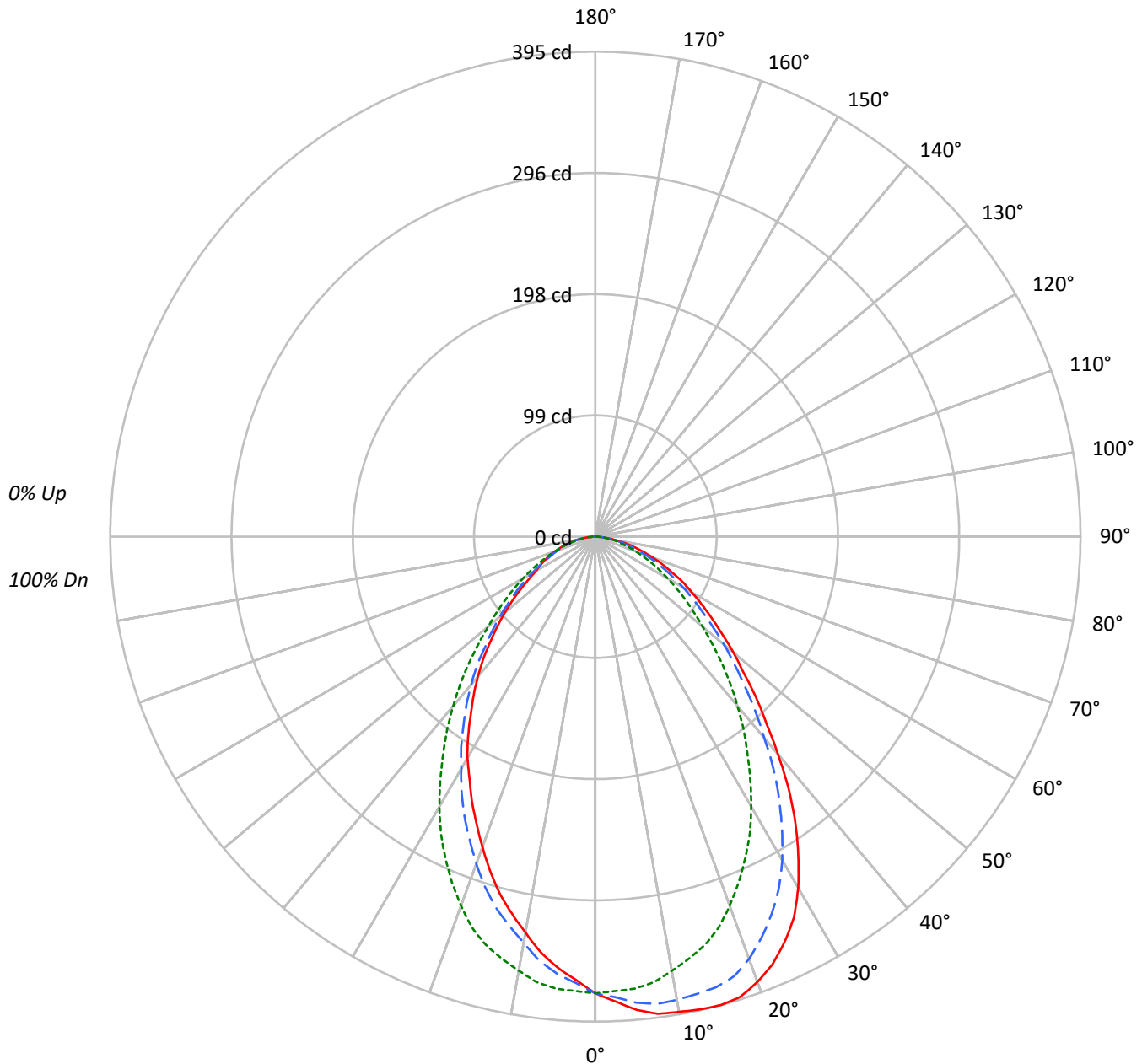
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20393	20393	20393
5°	21296	20333	19392
10°	21877	19984	18231
15°	22418	19546	17077
20°	22519	18662	15681
25°	22048	17469	14390
30°	20915	16066	13186
35°	18999	14442	11825
40°	16552	12867	10641
45°	14327	11257	9358
50°	12511	9697	8204
55°	11049	8525	7034
60°	9933	7467	6096
65°	8898	6499	5902
70°	7950	5546	5546
75°	6884	4660	5189
80°	5525	3946	4735
85°	3774	3459	4151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	5.0
10°-20°	97.2	14.0
20°-30°	135.4	19.5
30°-40°	139.6	20.1
40°-50°	115.7	16.7
50°-60°	83.1	12.0
60°-70°	52.9	7.6
70°-80°	27.2	3.9
80°-90°	6.9	1.0
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°	267.6	38.6
0°-40°	407.1	58.8
0°-60°	605.9	87.4
0°-90°	693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	372	372	372	372	372	
5°	387	381	370	357	352	37
15°	395	380	344	313	301	111
25°	364	340	289	252	238	167
35°	284	261	216	187	177	176
45°	185	172	145	127	121	143
55°	116	106	89	79	74	104
65°	69	61	50	44	46	69
75°	32	28	22	23	24	35
85°	6	6	6	6	7	8
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°	372.0	372.0	372.0	372.0	372.0	372.0	372.0	372.0	372.0
2.5°	379.0	377.5	375.5	373.5	370.5	367.0	364.0	363.0	361.5
5°	387.0	385.0	381.0	376.0	369.5	363.0	357.4	353.9	352.4
7.5°	392.0	389.5	384.0	375.5	366.0	356.5	348.5	343.4	341.5
10°	393.0	390.5	383.0	371.5	359.0	346.0	335.9	330.0	327.5
12.5°	394.5	391.0	381.5	368.0	352.0	337.0	324.4	317.0	314.4
15°	395.0	391.0	380.0	363.5	344.4	326.5	312.9	303.9	300.9
17.5°	393.0	388.5	375.5	355.5	333.9	314.9	298.9	289.4	285.3
20°	386.0	381.0	366.0	343.4	319.9	299.9	283.4	273.3	268.8
22.5°	377.0	370.5	353.5	329.4	304.9	283.9	267.4	257.3	252.8
25°	364.5	358.4	339.5	313.9	288.8	266.9	251.9	241.4	237.9
27.5°	350.0	343.0	323.4	297.9	272.3	250.3	235.8	226.3	221.8
30°	330.4	324.0	304.4	278.9	253.8	233.3	218.3	210.3	208.3
32.5°	307.4	301.9	282.8	258.9	234.8	215.8	203.3	194.8	192.8
35°	283.9	277.4	260.8	238.3	215.8	198.8	187.2	179.8	176.7
37.5°	258.3	252.3	238.3	218.3	198.3	182.3	172.2	165.8	162.7
40°	231.3	226.8	213.8	197.7	179.8	165.8	157.2	151.6	148.7
42.5°	206.2	201.8	192.8	177.7	162.7	150.2	142.7	137.6	135.1
45°	184.8	180.7	171.8	158.8	145.2	134.7	126.7	123.2	120.7
47.5°	163.2	161.3	153.2	141.1	128.7	119.7	114.1	110.2	108.1
50°	146.7	144.2	136.7	124.2	113.7	106.7	101.6	98.1	96.2
52.5°	129.7	127.1	120.1	109.6	101.1	94.6	89.6	86.7	84.6
55°	115.6	113.7	106.1	96.6	89.2	83.6	79.1	75.6	73.6
57.5°	102.6	100.7	93.7	84.6	78.1	73.1	69.0	66.1	63.6
60°	90.6	89.2	82.2	73.6	68.1	63.1	59.6	57.1	55.6
62.5°	80.1	77.1	71.1	63.6	58.5	54.6	51.1	49.6	50.5
65°	68.6	67.1	61.1	54.6	50.1	46.1	43.5	44.5	45.5
67.5°	59.1	57.1	52.1	46.1	42.0	39.1	37.5	39.6	40.0
70°	49.6	47.6	43.1	38.1	34.6	32.5	32.5	34.0	34.6
72.5°	40.6	39.1	35.0	31.1	28.6	27.0	28.0	29.0	29.5
75°	32.5	31.1	28.0	24.5	22.0	22.0	23.1	24.1	24.5
77.5°	25.1	24.1	21.0	18.5	17.5	17.5	18.5	19.0	19.5
80°	17.5	16.5	15.0	13.6	12.5	13.6	14.5	14.5	15.0
82.5°	11.5	11.0	10.1	9.0	9.0	9.5	10.1	10.5	10.5
85°	6.0	6.0	5.5	5.0	5.5	6.0	6.0	6.6	6.6
87.5°	2.0	2.0	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)