

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: P582988

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582988
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-HM60525940-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 603.7 lumens
Efficiency: N/A
Efficacy: 100.6 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

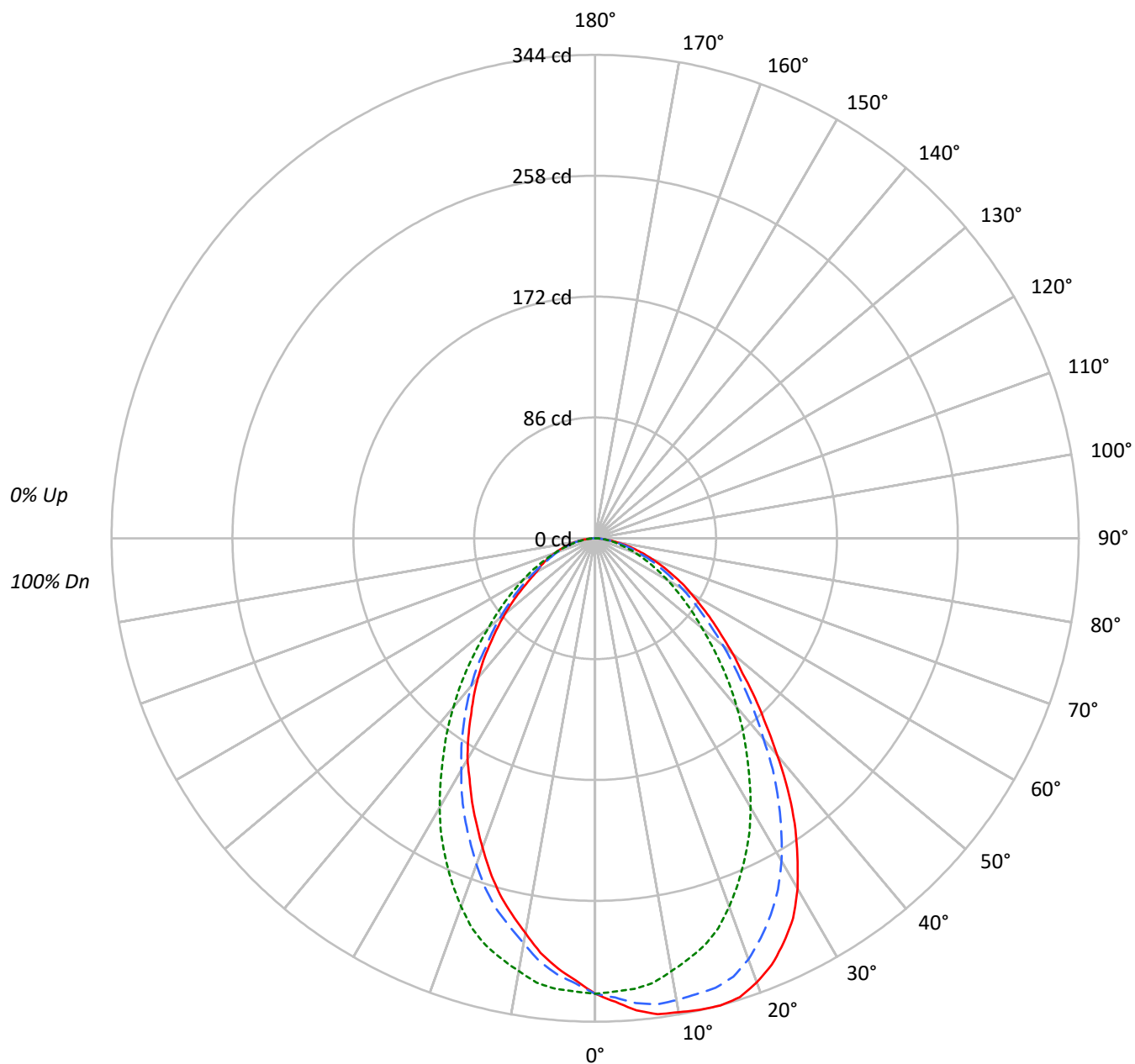
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17767	17767	17767
5°	18556	17714	16900
10°	19060	17412	15881
15°	19535	17032	14881
20°	19619	16265	13663
25°	19205	15225	12533
30°	18224	13996	11489
35°	16557	12582	10306
40°	14420	11207	9267
45°	12474	9799	8148
50°	10899	8443	7138
55°	9634	7417	6126
60°	8662	6502	5307
65°	7757	5656	5150
70°	6924	4825	4825
75°	6015	4067	4533
80°	4830	3473	4136
85°	3271	2956	3522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	5.0
10°-20°	84.7	14.0
20°-30°	118.0	19.5
30°-40°	121.6	20.1
40°-50°	100.8	16.7
50°-60°	72.4	12.0
60°-70°	46.1	7.6
70°-80°	23.7	3.9
80°-90°	6.0	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°	233.1	38.6
0°-40°	354.7	58.8
0°-60°	527.9	87.4
0°-90°	603.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	603.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	324	324	324	324	324	
5°	337	332	322	311	307	32
15°	344	331	300	273	262	97
25°	318	296	252	219	207	146
35°	247	227	188	163	154	154
45°	161	150	126	110	105	125
55°	101	92	78	69	64	91
65°	60	53	44	38	40	60
75°	28	24	19	20	21	30
85°	5	5	5	5	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°	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1	324.1
2.5°	330.2	328.9	327.1	325.4	322.8	319.7	317.1	316.3	314.9
5°	337.2	335.4	332.0	327.6	321.9	316.3	311.4	308.4	307.1
7.5°	341.6	339.3	334.6	327.1	318.9	310.5	303.6	299.2	297.5
10°	342.4	340.2	333.7	323.6	312.8	301.4	292.7	287.5	285.3
12.5°	343.7	340.7	332.3	320.6	306.7	293.6	282.6	276.1	273.9
15°	344.2	340.7	331.1	316.6	300.1	284.4	272.7	264.8	262.2
17.5°	342.4	338.4	327.1	309.7	291.0	274.4	260.5	252.1	248.6
20°	336.3	332.0	318.9	299.2	278.8	261.3	246.9	238.2	234.2
22.5°	328.5	322.8	307.9	287.0	265.7	247.4	232.9	224.2	220.2
25°	317.5	312.3	295.7	273.5	251.7	232.4	219.4	210.3	207.2
27.5°	304.9	298.8	281.8	259.6	237.3	218.1	205.4	197.2	193.2
30°	287.9	282.3	265.2	243.0	221.1	203.3	190.2	183.2	181.5
32.5°	267.8	263.1	246.5	225.5	204.5	188.0	177.1	169.7	167.9
35°	247.4	241.7	227.2	207.6	188.0	173.1	163.2	156.6	154.0
37.5°	225.1	219.9	207.6	190.2	172.8	158.8	150.1	144.4	141.8
40°	201.5	197.6	186.2	172.3	156.6	144.4	137.0	132.2	129.5
42.5°	179.7	175.8	167.9	154.8	141.8	130.9	124.3	120.0	117.7
45°	160.9	157.5	149.6	138.3	126.4	117.3	110.4	107.4	105.1
47.5°	142.2	140.5	133.5	123.1	112.1	104.3	99.4	95.9	94.2
50°	127.8	125.7	119.1	108.1	99.0	92.9	88.6	85.5	83.7
52.5°	113.0	110.7	104.6	95.5	88.1	82.5	78.1	75.5	73.7
55°	100.8	99.0	92.4	84.2	77.6	72.9	68.9	65.9	64.1
57.5°	89.4	87.7	81.6	73.7	68.0	63.7	60.2	57.6	55.4
60°	79.0	77.6	71.5	64.1	59.3	54.9	51.9	49.7	48.4
62.5°	69.8	67.1	61.9	55.4	51.1	47.6	44.5	43.2	44.1
65°	59.8	58.4	53.2	47.6	43.6	40.1	38.0	38.9	39.7
67.5°	51.4	49.7	45.3	40.1	36.6	34.0	32.8	34.5	34.9
70°	43.2	41.5	37.5	33.1	30.1	28.4	28.4	29.6	30.1
72.5°	35.4	34.0	30.5	27.0	24.9	23.5	24.4	25.3	25.8
75°	28.4	27.0	24.4	21.4	19.2	19.2	20.1	20.9	21.4
77.5°	21.8	20.9	18.3	16.2	15.3	15.3	16.2	16.6	17.1
80°	15.3	14.4	13.1	11.8	11.0	11.8	12.7	12.7	13.1
82.5°	10.1	9.6	8.7	7.8	7.8	8.2	8.7	9.2	9.2
85°	5.2	5.2	4.7	4.4	4.7	5.2	5.2	5.6	5.6
87.5°	1.7	1.7	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)