

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: P583366

Luminaire Tested: **HC607D010-HM60525927-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583366
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: HC607D010-HM60525927-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 686.8 lumens
Efficiency: N/A
Efficacy: 85.8 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

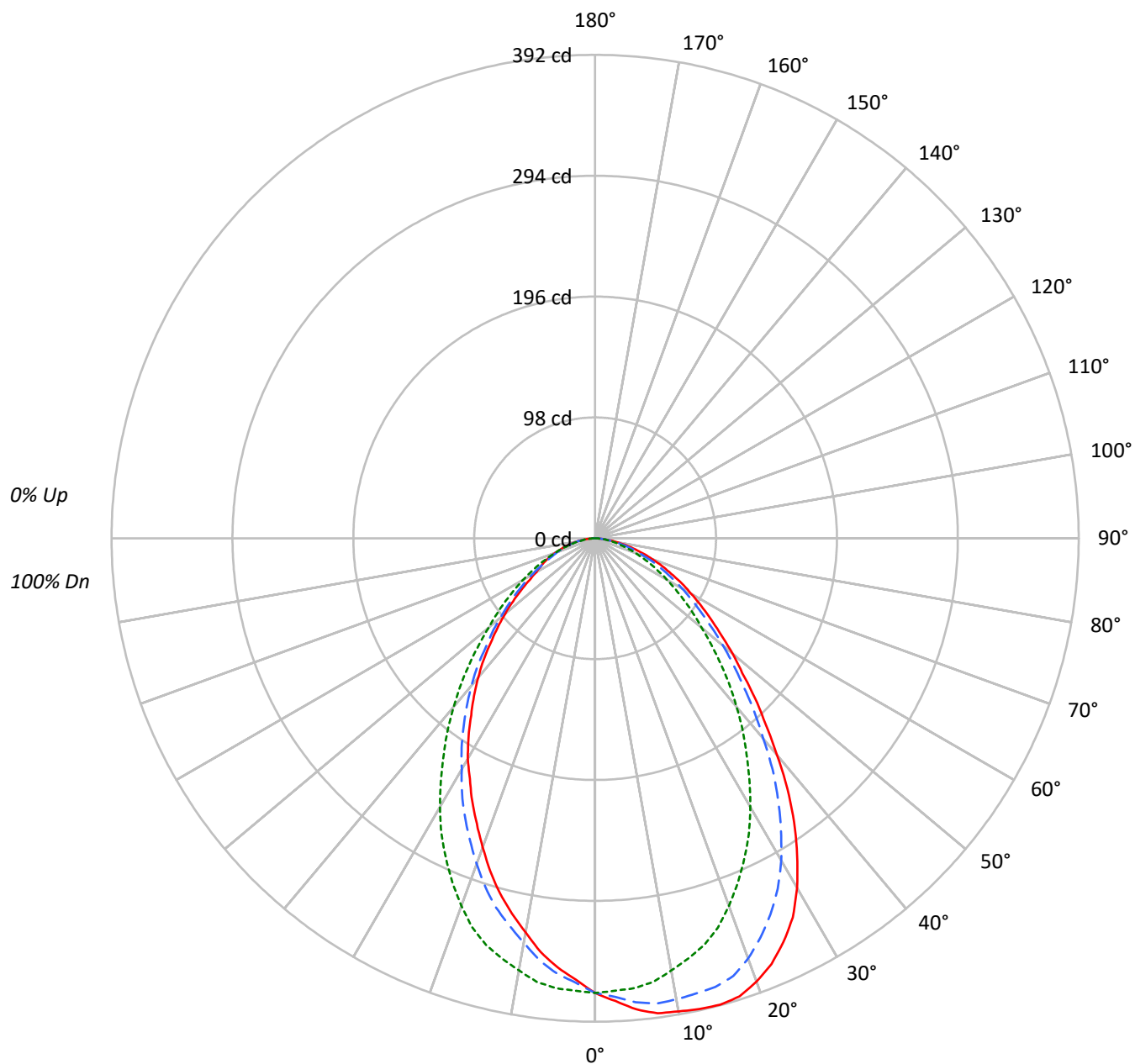
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20212	20212	20212
5°	21104	20152	19222
10°	21682	19806	18064
15°	22219	19376	16924
20°	22320	18493	15547
25°	21848	17318	14257
30°	20725	15920	13065
35°	18825	14315	11725
40°	16402	12745	10548
45°	14195	11156	9265
50°	12400	9603	8128
55°	10963	8449	6977
60°	9846	7401	6041
65°	8821	6434	5863
70°	7886	5482	5482
75°	6841	4639	5168
80°	5462	3883	4672
85°	3774	3397	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	5.0
10°-20°	96.3	14.0
20°-30°	134.2	19.5
30°-40°	138.3	20.1
40°-50°	114.6	16.7
50°-60°	82.4	12.0
60°-70°	52.5	7.6
70°-80°	26.9	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°	265.2	38.6
0°-40°	403.5	58.8
0°-60°	600.5	87.4
0°-90°	686.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	369	369	369	369	369	
5°	384	378	366	354	349	37
15°	392	377	341	310	298	110
25°	361	336	286	250	236	166
35°	281	259	214	186	175	175
45°	183	170	144	126	120	142
55°	115	105	88	78	73	103
65°	68	60	50	43	45	68
75°	32	28	22	23	24	34
85°	6	5	5	6	6	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°	368.7	368.7	368.7	368.7	368.7	368.7	368.7	368.7	368.7
2.5°	375.6	374.1	372.2	370.2	367.2	363.7	360.7	359.7	358.3
5°	383.5	381.6	377.6	372.6	366.2	359.7	354.3	350.8	349.3
7.5°	388.5	386.0	380.6	372.2	362.7	353.3	345.3	340.4	338.4
10°	389.5	387.0	379.6	368.2	355.8	342.8	333.0	327.0	324.5
12.5°	391.0	387.5	378.1	364.7	348.9	333.9	321.5	314.1	311.6
15°	391.5	387.5	376.6	360.2	341.4	323.5	310.1	301.2	298.2
17.5°	389.5	385.0	372.2	352.2	330.9	312.1	296.3	286.8	282.8
20°	382.6	377.6	362.7	340.4	317.0	297.2	280.9	270.9	266.5
22.5°	373.7	367.2	350.3	326.5	302.2	281.3	265.0	255.0	250.6
25°	361.2	355.3	336.4	311.1	286.3	264.4	249.6	239.2	235.7
27.5°	346.8	339.9	320.5	295.3	269.9	248.1	233.7	224.2	219.8
30°	327.4	321.0	301.7	276.3	251.5	231.2	216.3	208.4	206.4
32.5°	304.7	299.2	280.3	256.5	232.7	213.9	201.4	193.1	191.0
35°	281.3	274.9	258.6	236.2	213.9	197.0	185.6	178.1	175.2
37.5°	256.1	250.1	236.2	216.3	196.5	180.6	170.7	164.3	161.2
40°	229.2	224.8	211.9	196.0	178.1	164.3	155.8	150.3	147.4
42.5°	204.4	200.0	191.0	176.2	161.2	148.9	141.4	136.4	133.9
45°	183.1	179.1	170.2	157.3	143.9	133.5	125.5	122.0	119.5
47.5°	161.8	159.8	151.8	139.9	127.6	118.6	113.2	109.1	107.2
50°	145.4	142.9	135.5	123.0	112.6	105.7	100.7	97.2	95.3
52.5°	128.5	126.0	119.1	108.7	100.3	93.8	88.8	85.9	83.8
55°	114.7	112.6	105.1	95.7	88.4	82.8	78.4	74.9	73.0
57.5°	101.7	99.7	92.8	83.8	77.4	72.4	68.4	65.5	63.0
60°	89.8	88.4	81.3	73.0	67.5	62.5	59.0	56.5	55.1
62.5°	79.4	76.4	70.5	63.0	58.0	54.0	50.6	49.2	50.1
65°	68.0	66.5	60.5	54.0	49.6	45.7	43.2	44.2	45.2
67.5°	58.6	56.5	51.6	45.7	41.7	38.7	37.2	39.2	39.7
70°	49.2	47.1	42.7	37.7	34.2	32.3	32.3	33.8	34.2
72.5°	40.2	38.7	34.8	30.8	28.3	26.7	27.8	28.8	29.2
75°	32.3	30.8	27.8	24.4	21.9	21.9	22.8	23.8	24.4
77.5°	24.8	23.8	20.8	18.4	17.3	17.3	18.4	18.8	19.4
80°	17.3	16.4	14.8	13.4	12.3	13.4	14.4	14.4	14.8
82.5°	11.4	10.9	10.0	9.0	9.0	9.4	10.0	10.4	10.4
85°	6.0	6.0	5.4	5.0	5.4	6.0	6.0	6.5	6.5
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



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)