

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: P583312

Luminaire Tested: **HC607D010-HM60525830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583312
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-HM60525830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 874.5 lumens
Efficiency: N/A
Efficacy: 109.3 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

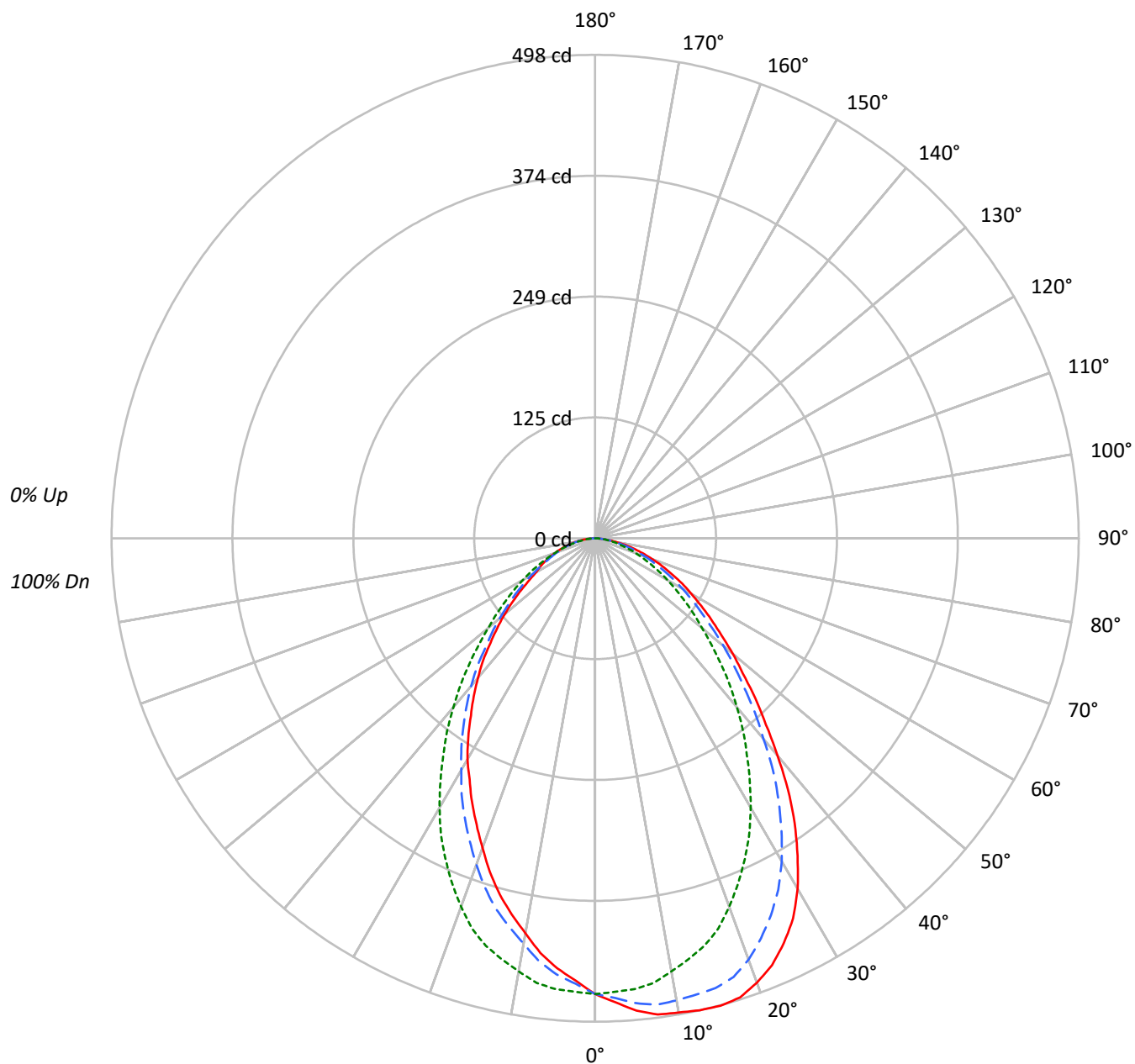
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	106	103	99	108	104	101	98		100	97	95			96	94	92			93
2	102	95	89	84	99	93	88	83		90	85	81			86	83	79			83
3	94	85	78	72	92	83	77	71		80	75	70			78	73	69			75
4	87	76	69	63	85	75	68	62		73	67	62			71	65	61			69
5	81	69	61	55	79	68	61	55		66	60	55			64	59	54			63
6	75	63	55	49	73	62	55	49		61	54	49			59	53	48			57
7	70	58	50	44	69	57	50	44		56	49	44			54	48	44			53
8	66	53	46	40	64	53	45	40		51	45	40			50	44	40			49
9	62	49	42	37	60	49	42	37		48	41	36			47	41	36			46
10	58	46	39	34	57	45	38	34		44	38	33			44	38	33			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25738	25738	25738
5°	26876	25660	24477
10°	27610	25222	23001
15°	28292	24671	21555
20°	28422	23557	19794
25°	27824	22054	18152
30°	26403	20282	16642
35°	23979	18230	14931
40°	20896	16230	13425
45°	18079	14203	11807
50°	15786	12230	10345
55°	13945	10752	8879
60°	12532	9418	7686
65°	11233	8198	7472
70°	10018	6988	6988
75°	8705	5888	6545
80°	6977	4956	5967
85°	4780	4340	5221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	5.0
10°-20°	122.7	14.0
20°-30°	170.9	19.5
30°-40°	176.1	20.1
40°-50°	146.0	16.7
50°-60°	104.9	12.0
60°-70°	66.8	7.6
70°-80°	34.3	3.9
80°-90°	8.7	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°	337.7	38.6
0°-40°	513.8	58.8
0°-60°	764.7	87.4
0°-90°	874.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	874.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	470	470	470	470	470	
5°	488	481	466	451	445	47
15°	498	480	435	395	380	141
25°	460	428	365	318	300	211
35°	358	329	272	236	223	223
45°	233	217	183	160	152	180
55°	146	134	112	100	93	131
65°	87	77	63	55	58	87
75°	41	35	28	29	31	44
85°	8	7	7	8	8	10
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°	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5	469.5
2.5°	478.4	476.4	473.9	471.4	467.6	463.2	459.4	458.1	456.3
5°	488.4	485.9	480.8	474.5	466.3	458.1	451.2	446.7	444.8
7.5°	494.8	491.6	484.7	473.9	461.9	449.9	439.8	433.5	431.0
10°	496.0	492.9	483.3	468.8	453.1	436.7	424.0	416.4	413.2
12.5°	498.0	493.5	481.5	464.4	444.2	425.2	409.5	399.9	396.8
15°	498.5	493.5	479.6	458.8	434.7	412.0	395.0	383.5	379.8
17.5°	496.0	490.4	473.9	448.7	421.5	397.5	377.3	365.3	360.2
20°	487.2	480.8	461.9	433.5	403.8	378.5	357.7	345.0	339.3
22.5°	475.9	467.6	446.1	415.8	384.8	358.3	337.4	324.8	319.1
25°	460.0	452.4	428.4	396.2	364.6	336.8	317.8	304.6	300.1
27.5°	441.6	432.8	408.2	375.9	343.8	316.0	297.6	285.6	280.0
30°	417.1	408.8	384.2	351.9	320.4	294.5	275.5	265.3	262.9
32.5°	387.9	381.0	357.0	326.6	296.4	272.4	256.5	245.7	243.3
35°	358.3	350.1	329.2	300.8	272.4	250.8	236.3	226.8	223.1
37.5°	326.1	318.5	300.8	275.5	250.3	230.0	217.4	209.2	205.4
40°	292.0	286.2	269.8	249.6	226.8	209.2	198.4	191.5	187.6
42.5°	260.4	254.7	243.3	224.3	205.4	189.6	180.0	173.8	170.6
45°	233.2	228.1	216.7	200.3	183.2	170.0	159.9	155.4	152.3
47.5°	206.0	203.5	193.4	178.2	162.4	151.0	144.1	139.0	136.5
50°	185.1	182.0	172.6	156.7	143.4	134.6	128.3	123.8	121.3
52.5°	163.6	160.5	151.7	138.3	127.7	119.4	113.1	109.3	106.8
55°	145.9	143.4	133.9	121.9	112.5	105.5	99.8	95.4	92.9
57.5°	129.5	127.0	118.2	106.8	98.6	92.2	87.2	83.4	80.2
60°	114.3	112.5	103.7	92.9	85.9	79.6	75.2	72.1	70.1
62.5°	101.1	97.3	89.7	80.2	74.0	68.9	64.5	62.5	63.8
65°	86.6	84.6	77.0	68.9	63.2	58.1	55.0	56.2	57.6
67.5°	74.6	72.1	65.7	58.1	53.0	49.3	47.4	50.0	50.5
70°	62.5	60.0	54.4	48.0	43.6	41.1	41.1	42.9	43.6
72.5°	51.2	49.3	44.2	39.2	36.0	34.1	35.3	36.6	37.3
75°	41.1	39.2	35.3	30.9	27.8	27.8	29.1	30.4	30.9
77.5°	31.6	30.4	26.5	23.3	22.1	22.1	23.3	24.0	24.7
80°	22.1	20.8	18.9	17.1	15.7	17.1	18.4	18.4	18.9
82.5°	14.5	13.9	12.7	11.3	11.3	12.0	12.7	13.3	13.3
85°	7.6	7.6	6.9	6.3	6.9	7.6	7.6	8.3	8.3
87.5°	2.5	2.5	2.5	2.5	3.2	3.2	3.2	3.2	3.2
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)