

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: P583359

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 741.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

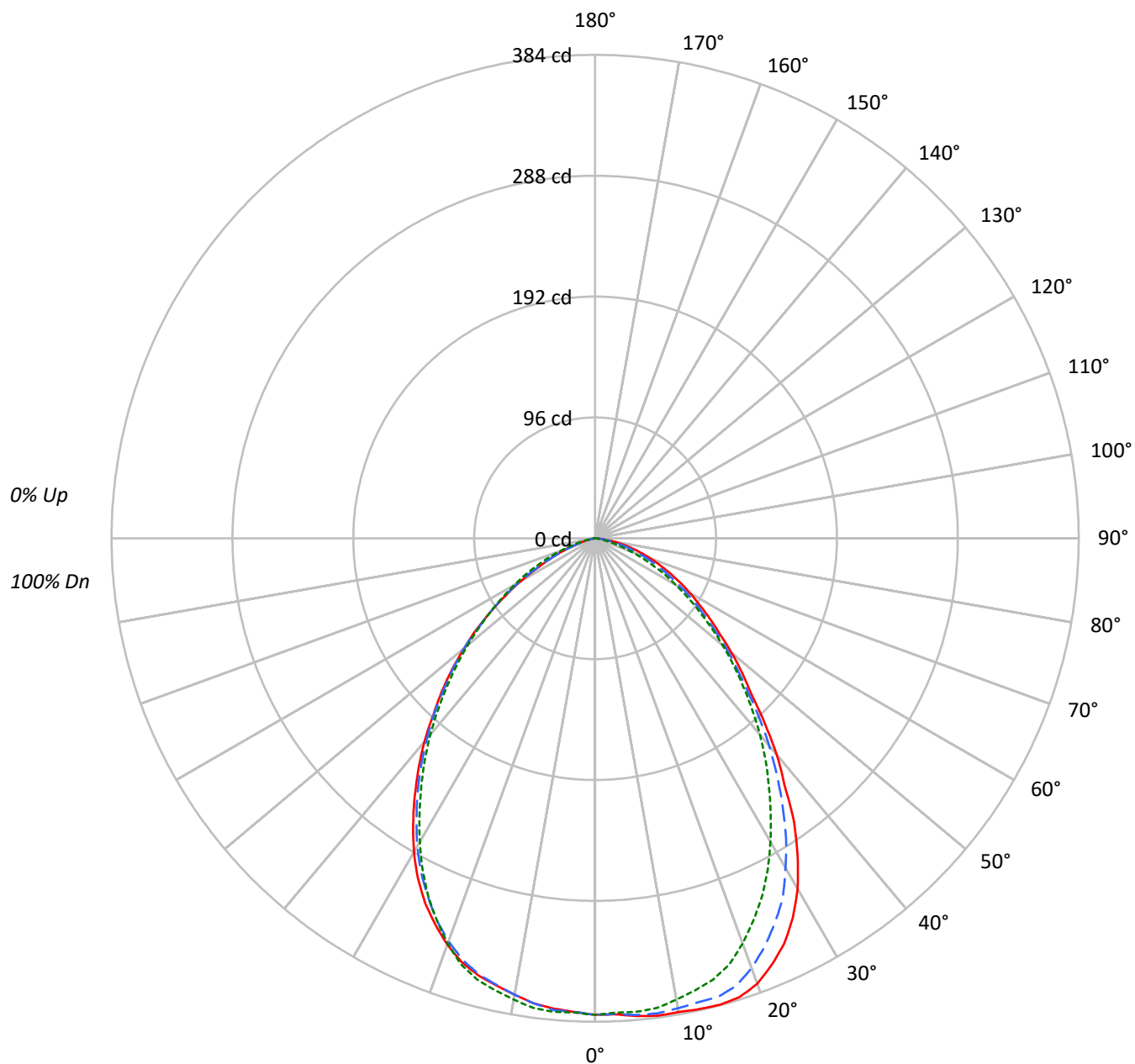
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20749	20749	20749
5°	20966	20779	20642
10°	21264	20713	20491
15°	21765	20585	20392
20°	21970	19975	20028
25°	21491	18969	19326
30°	20351	17623	18218
35°	18431	16102	16704
40°	16044	14563	15093
45°	13614	12885	13350
50°	12059	11258	11556
55°	10618	9625	9586
60°	9517	8113	7456
65°	8496	6499	5331
70°	7485	4680	3334
75°	6312	2838	1906
80°	4862	1263	789
85°	2768	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	4.8
10°-20°	103.3	13.9
20°-30°	149.3	20.1
30°-40°	157.1	21.2
40°-50°	132.1	17.8
50°-60°	92.7	12.5
60°-70°	51.0	6.9
70°-80°	18.1	2.4
80°-90°	2.4	0.3
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°	288.5	38.9
0°-40°	445.6	60.1
0°-60°	670.4	90.4
0°-90°	741.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	378	378	378	378	378	
5°	381	380	378	376	375	36
15°	384	377	363	358	359	108
25°	355	337	314	314	320	163
35°	275	260	241	246	250	171
45°	176	171	166	170	172	138
55°	111	105	101	101	100	100
65°	66	59	50	41	41	65
75°	30	24	13	9	9	32
85°	4	2	0	0	0	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°	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5
2.5°	378.5	378.5	378.1	378.1	377.1	377.1	376.6	376.6	376.6
5°	381.0	381.0	380.1	378.5	377.6	376.2	376.2	375.6	375.1
7.5°	382.5	382.0	380.6	378.5	376.2	373.7	372.6	373.1	372.6
10°	382.0	381.0	379.1	375.1	372.1	368.7	368.1	367.7	368.1
12.5°	383.1	381.6	377.6	372.6	367.7	363.7	363.2	363.2	363.7
15°	383.5	382.0	377.1	369.7	362.7	358.7	358.3	358.7	359.3
17.5°	382.0	380.1	372.6	362.7	354.7	350.8	350.8	351.8	352.8
20°	376.6	373.7	363.2	351.3	342.4	339.3	340.4	342.4	343.3
22.5°	366.6	363.2	351.3	337.9	328.5	326.0	328.5	330.9	332.0
25°	355.3	351.3	337.4	323.5	313.6	310.6	314.1	318.0	319.5
27.5°	339.9	335.4	322.6	306.6	296.7	295.3	299.2	303.6	304.7
30°	321.5	316.6	302.2	287.3	278.4	277.8	282.3	286.3	287.8
32.5°	299.2	294.7	282.3	267.4	259.5	259.5	264.0	267.4	269.0
35°	275.4	270.4	259.5	247.1	240.6	241.1	245.6	248.1	249.6
37.5°	247.1	245.6	237.1	226.7	222.3	223.3	226.7	228.8	230.2
40°	224.2	220.3	214.8	206.4	203.5	204.4	207.9	209.8	210.9
42.5°	199.4	197.0	192.5	186.6	184.6	186.0	189.1	190.6	190.0
45°	175.6	175.2	170.6	167.2	166.2	168.3	170.2	171.6	172.2
47.5°	158.3	156.2	152.3	149.9	148.9	150.8	152.8	153.9	153.9
50°	141.4	139.5	135.5	133.0	132.0	133.9	135.5	136.4	135.5
52.5°	124.5	122.6	119.1	116.1	115.6	116.6	117.2	117.6	118.6
55°	111.1	109.1	105.1	101.7	100.7	101.2	100.7	100.7	100.3
57.5°	98.2	96.3	92.3	88.4	86.8	86.3	84.9	84.3	83.8
60°	86.8	84.3	80.3	75.9	74.0	71.9	69.5	68.0	68.0
62.5°	75.9	73.4	69.0	65.0	62.0	58.6	54.6	52.6	52.6
65°	65.5	63.6	58.6	54.0	50.1	45.7	41.1	40.2	41.1
67.5°	55.5	53.6	48.6	44.2	39.2	33.8	29.8	29.8	30.8
70°	46.7	44.6	40.2	34.8	29.2	23.8	20.8	20.8	20.8
72.5°	38.2	36.3	31.3	26.3	20.8	15.4	13.9	14.4	13.9
75°	29.8	28.3	23.8	18.4	13.4	9.4	9.0	8.4	9.0
77.5°	22.3	20.8	16.9	11.9	7.5	5.4	5.0	5.0	5.0
80°	15.4	13.9	10.9	6.9	4.0	2.5	2.5	2.5	2.5
82.5°	9.4	7.9	6.0	3.5	1.5	1.5	1.5	1.5	1.5
85°	4.4	3.5	2.5	1.0	0.5	0.5	0.5	0.5	0.5
87.5°	1.0	1.0	0.5	0.5	0.0	0.5	0.5	0.0	0.0
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)