

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: P593050

Luminaire Tested: **HC607D010-HM60525950-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593050
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-HM60525950-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 799.1 lumens
Efficiency: N/A
Efficacy: 99.9 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

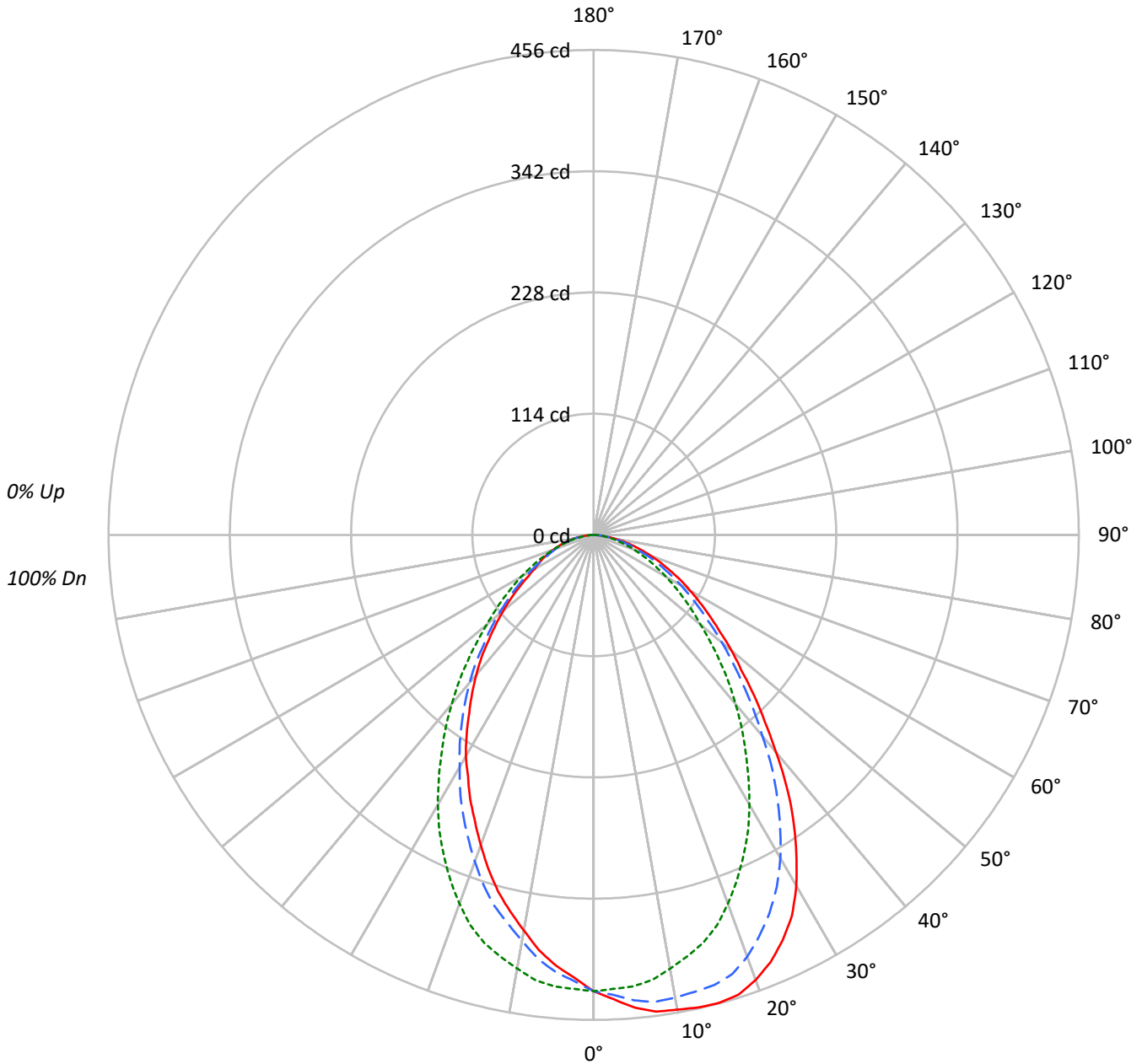
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	23518	23518	23518
5°	24560	23448	22370
10°	25228	23046	21019
15°	25857	22543	19694
20°	25972	21521	18091
25°	25423	20148	16592
30°	24118	18534	15205
35°	21904	16650	13639
40°	19086	14828	12273
45°	16513	12986	10784
50°	14430	11181	9450
55°	12750	9825	8114
60°	11457	8607	7028
65°	10261	7498	6823
70°	9168	6395	6395
75°	7943	5380	5994
80°	6377	4546	5462
85°	4340	3963	4717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	5.0
10°-20°	112.1	14.0
20°-30°	156.2	19.5
30°-40°	160.9	20.1
40°-50°	133.4	16.7
50°-60°	95.9	12.0
60°-70°	61.0	7.6
70°-80°	31.3	3.9
80°-90°	8.0	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°	308.6	38.6
0°-40°	469.5	58.8
0°-60°	698.7	87.4
0°-90°	799.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	429	429	429	429	429	
5°	446	439	426	412	406	43
15°	456	438	397	361	347	128
25°	420	392	333	290	274	193
35°	327	301	249	216	204	203
45°	213	198	168	146	139	165
55°	133	122	103	91	85	120
65°	79	70	58	50	53	79
75°	38	32	25	26	28	40
85°	7	6	6	7	8	9
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°	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0
2.5°	437.1	435.3	433.0	430.8	427.3	423.2	419.8	418.6	416.8
5°	446.3	444.0	439.4	433.6	426.1	418.6	412.3	408.2	406.5
7.5°	452.1	449.2	442.9	433.0	422.0	411.1	401.9	396.1	393.8
10°	453.2	450.4	441.6	428.4	414.0	398.9	387.4	380.5	377.6
12.5°	455.0	450.9	439.9	424.4	406.0	388.6	374.1	365.5	362.6
15°	455.6	450.9	438.2	419.2	397.2	376.5	360.9	350.4	347.0
17.5°	453.2	448.1	433.0	409.9	385.1	363.1	344.7	333.8	329.1
20°	445.2	439.4	422.0	396.1	368.9	345.9	326.8	315.2	310.1
22.5°	434.7	427.3	407.7	379.9	351.6	327.3	308.3	296.7	291.6
25°	420.3	413.4	391.5	362.0	333.1	307.7	290.4	278.3	274.3
27.5°	403.6	395.5	373.0	343.5	314.1	288.7	271.9	260.9	255.8
30°	381.0	373.6	351.0	321.5	292.8	269.1	251.8	242.5	240.2
32.5°	354.5	348.2	326.2	298.5	270.8	248.8	234.4	224.6	222.3
35°	327.3	319.8	300.8	274.9	248.8	229.2	215.9	207.2	203.8
37.5°	298.0	291.0	274.9	251.8	228.6	210.2	198.6	191.1	187.6
40°	266.7	261.6	246.5	228.1	207.2	191.1	181.3	174.9	171.5
42.5°	237.9	232.7	222.3	205.0	187.6	173.2	164.5	158.7	155.9
45°	213.0	208.5	198.0	183.0	167.5	155.3	146.0	142.1	139.1
47.5°	188.2	185.9	176.6	162.8	148.4	138.0	131.7	127.0	124.7
50°	169.2	166.3	157.6	143.2	131.1	122.9	117.2	113.2	110.8
52.5°	149.6	146.6	138.6	126.4	116.6	109.1	103.3	99.9	97.6
55°	133.4	131.1	122.4	111.5	102.8	96.4	91.2	87.2	84.9
57.5°	118.4	116.0	108.0	97.6	90.1	84.3	79.6	76.3	73.3
60°	104.5	102.8	94.7	84.9	78.5	72.7	68.7	65.8	64.1
62.5°	92.3	88.9	82.0	73.3	67.5	62.9	58.9	57.2	58.3
65°	79.1	77.4	70.5	62.9	57.8	53.1	50.2	51.4	52.6
67.5°	68.1	65.8	60.0	53.1	48.5	45.0	43.3	45.7	46.2
70°	57.2	54.8	49.6	43.8	39.9	37.5	37.5	39.3	39.9
72.5°	46.8	45.0	40.4	35.8	32.9	31.2	32.3	33.5	34.1
75°	37.5	35.8	32.3	28.3	25.4	25.4	26.5	27.8	28.3
77.5°	28.9	27.8	24.2	21.4	20.2	20.2	21.4	22.0	22.5
80°	20.2	19.0	17.3	15.6	14.4	15.6	16.8	16.8	17.3
82.5°	13.3	12.7	11.6	10.4	10.4	11.0	11.6	12.1	12.1
85°	6.9	6.9	6.3	5.8	6.3	6.9	6.9	7.5	7.5
87.5°	2.3	2.3	2.3	2.3	2.8	2.8	2.8	2.8	2.8
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)