

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: P583287

Luminaire Tested: **HC607D010-HM60525827-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583287
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-HM60525827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 878.4 lumens
Efficiency: N/A
Efficacy: 109.8 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

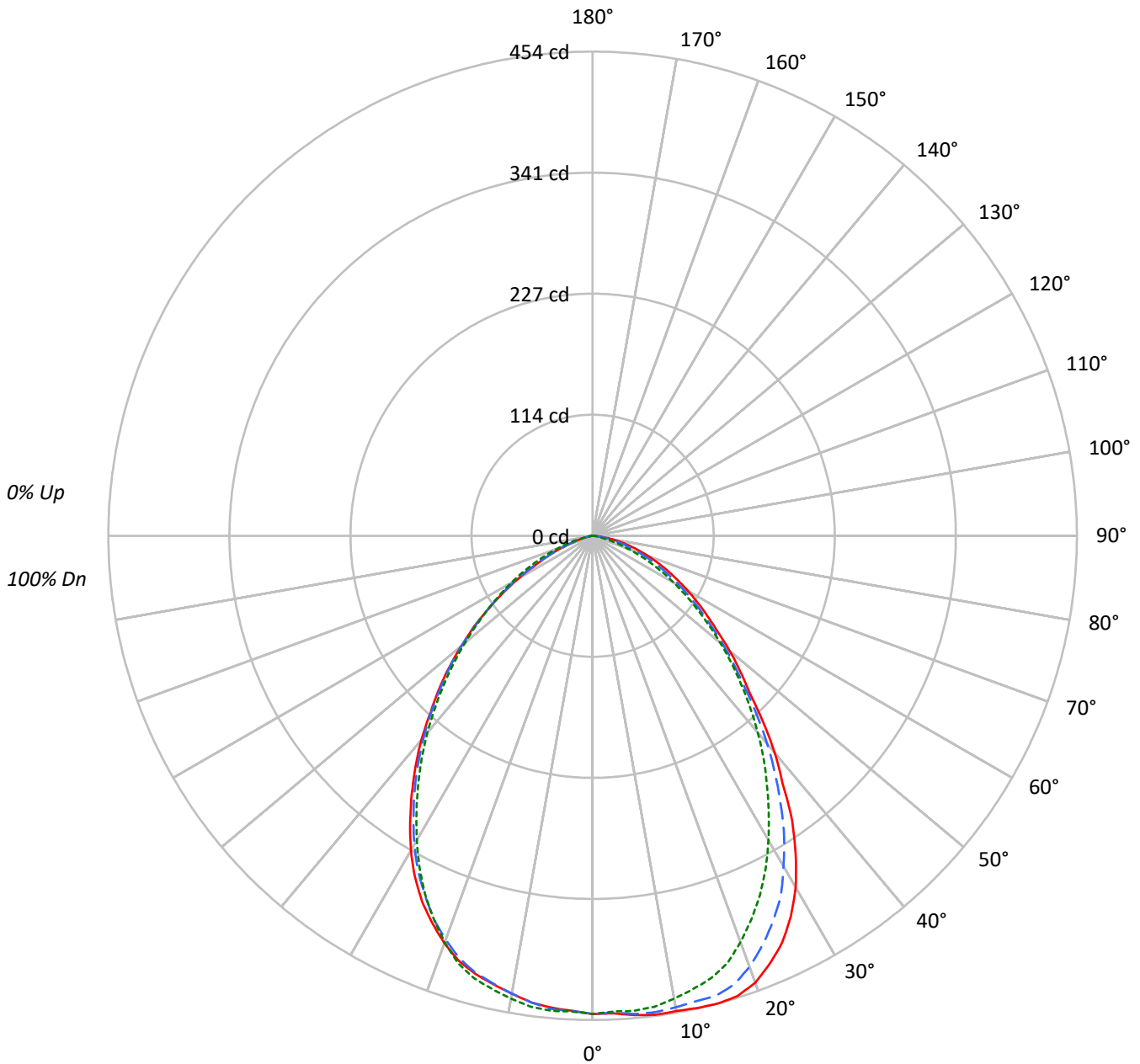
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583287

CATALOG NUMBER: HC607D010-HM60525827-61RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P583287

CATALOG NUMBER: HC607D010-HM60525827-61RWWH

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24576	24576	24576
5°	24829	24604	24439
10°	25183	24526	24270
15°	25772	24376	24137
20°	26013	23650	23715
25°	25447	22459	22882
30°	24099	20864	21573
35°	21824	19066	19776
40°	19007	17239	17869
45°	16126	15257	15800
50°	14285	13322	13680
55°	12587	11402	11335
60°	11271	9604	8815
65°	10053	7705	6317
70°	8848	5562	3959
75°	7456	3368	2224
80°	5746	1452	916
85°	3334	377	377



TEST NUMBER: P583287

CATALOG NUMBER: HC607D010-HM60525827-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	4.8
10°-20°	122.3	13.9
20°-30°	176.8	20.1
30°-40°	186.0	21.2
40°-50°	156.4	17.8
50°-60°	109.8	12.5
60°-70°	60.4	6.9
70°-80°	21.4	2.4
80°-90°	2.8	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°	341.6	38.9
0°-40°	527.6	60.1
0°-60°	793.8	90.4
0°-90°	878.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	878.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	448	448	448	448	448	
5°	451	450	447	445	444	43
15°	454	446	430	424	425	128
25°	421	400	371	372	378	192
35°	326	307	285	291	296	202
45°	208	202	197	202	204	163
55°	132	124	119	119	119	118
65°	78	69	59	49	49	77
75°	35	28	16	10	10	38
85°	5	3	1	1	1	7
90°	0	0	0	0	0	



TEST NUMBER: P583287

CATALOG NUMBER: HC607D010-HM60525827-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
2.5°	448.3	448.3	447.6	447.6	446.5	446.5	445.9	445.9	445.9
5°	451.2	451.2	450.0	448.3	447.1	445.4	445.4	444.7	444.1
7.5°	453.0	452.4	450.6	448.3	445.4	442.4	441.2	441.8	441.2
10°	452.4	451.2	448.9	444.1	440.6	436.5	436.0	435.3	436.0
12.5°	453.5	451.8	447.1	441.2	435.3	430.7	430.1	430.1	430.7
15°	454.1	452.4	446.5	437.7	429.5	424.8	424.2	424.8	425.3
17.5°	452.4	450.0	441.2	429.5	420.1	415.4	415.4	416.6	417.7
20°	445.9	442.4	430.1	415.9	405.4	401.9	403.0	405.4	406.5
22.5°	434.2	430.1	415.9	400.1	389.0	386.0	389.0	391.9	393.0
25°	420.7	415.9	399.5	383.1	371.3	367.8	371.9	376.6	378.3
27.5°	402.4	397.1	381.9	363.1	351.3	349.5	354.3	359.6	360.7
30°	380.7	374.8	357.8	340.1	329.6	329.0	334.3	339.0	340.8
32.5°	354.3	349.0	334.3	316.7	307.3	307.3	312.6	316.7	318.5
35°	326.1	320.2	307.3	292.5	284.9	285.5	290.8	293.8	295.5
37.5°	292.5	290.8	280.9	268.5	263.2	264.3	268.5	270.9	272.6
40°	265.6	260.8	254.4	244.4	240.9	242.0	246.2	248.5	249.7
42.5°	236.2	233.3	228.0	220.9	218.6	220.4	223.9	225.6	225.0
45°	208.0	207.3	202.1	198.0	196.8	199.2	201.6	203.3	203.8
47.5°	187.4	185.0	180.4	177.4	176.3	178.6	180.9	182.2	182.2
50°	167.5	165.1	160.4	157.5	156.2	158.6	160.4	161.6	160.4
52.5°	147.5	145.1	141.1	137.4	136.9	138.1	138.7	139.2	140.4
55°	131.7	129.3	124.5	120.4	119.3	119.9	119.3	119.3	118.6
57.5°	116.4	114.0	109.3	104.6	102.8	102.2	100.5	99.9	99.3
60°	102.8	99.9	95.2	89.8	87.6	85.2	82.3	80.4	80.4
62.5°	89.8	86.9	81.7	76.9	73.4	69.3	64.6	62.3	62.3
65°	77.5	75.2	69.3	64.0	59.4	54.0	48.7	47.6	48.7
67.5°	65.8	63.4	57.6	52.3	46.5	40.0	35.2	35.2	36.5
70°	55.2	52.9	47.6	41.1	34.7	28.2	24.7	24.7	24.7
72.5°	45.2	42.9	37.0	31.2	24.7	18.2	16.4	17.0	16.4
75°	35.2	33.5	28.2	21.8	15.9	11.2	10.5	10.0	10.5
77.5°	26.4	24.7	19.9	14.0	8.8	6.5	5.9	5.9	5.9
80°	18.2	16.4	12.9	8.3	4.6	2.9	2.9	2.9	2.9
82.5°	11.2	9.4	7.0	4.1	1.8	1.8	1.8	1.8	1.8
85°	5.3	4.1	2.9	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	1.1	0.6	0.6	0.0	0.6	0.6	0.0	0.0
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)