

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: P582873

Luminaire Tested: **HC605D010-HM60525830-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582873
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: HC605D010-HM60525830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 713.7 lumens
Efficiency: N/A
Efficacy: 118.9 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

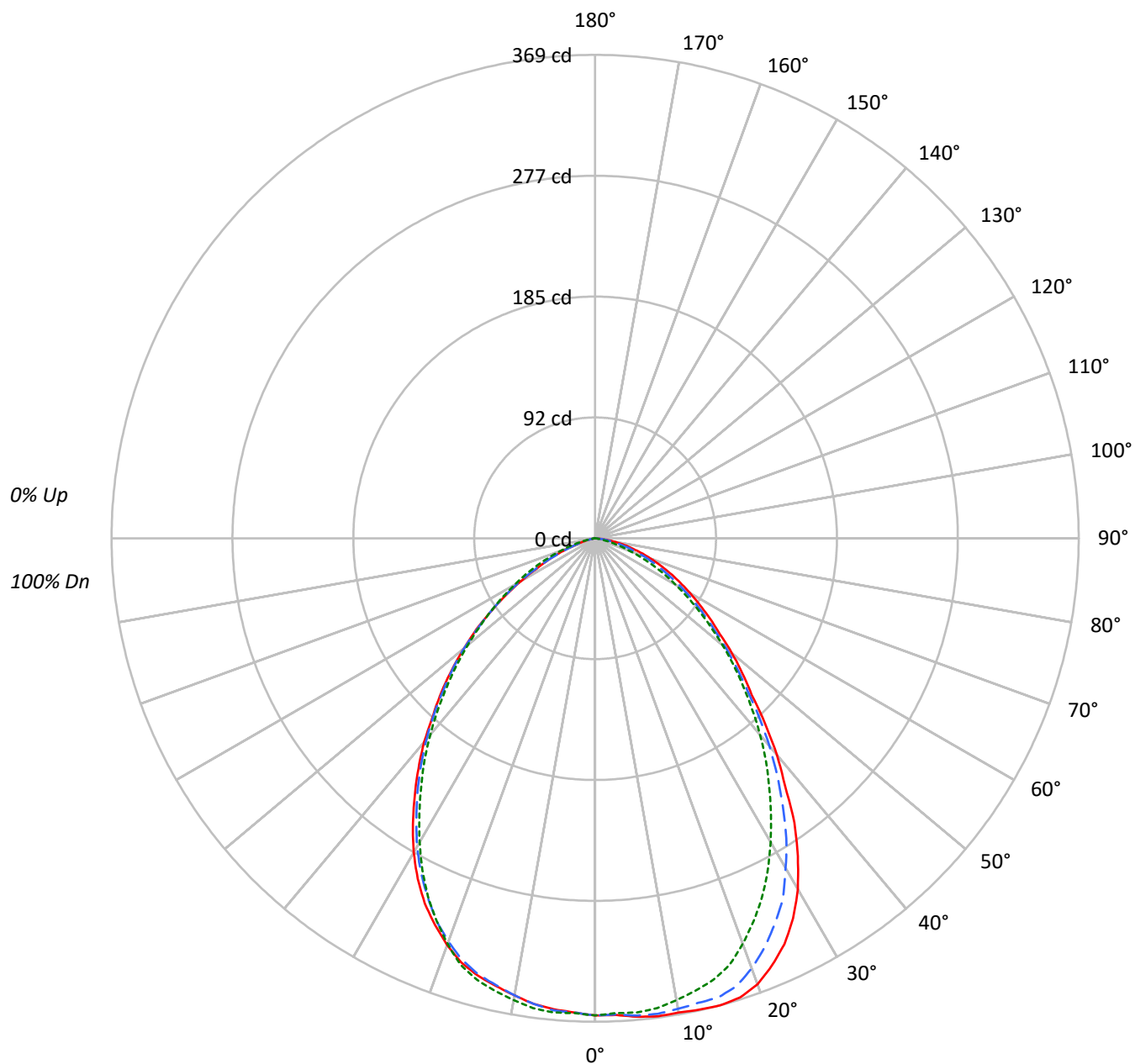
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P582873

CATALOG NUMBER: HC605D010-HM60525830-61RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P582873

CATALOG NUMBER: HC605D010-HM60525830-61RWWH

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°	19966	19966	19966
5°	20174	19992	19860
10°	20463	19928	19722
15°	20948	19801	19620
20°	21136	19217	19269
25°	20675	18249	18600
30°	19579	16952	17522
35°	17735	15493	16068
40°	15436	14005	14513
45°	13094	12397	12846
50°	11607	10831	11113
55°	10217	9271	9214
60°	9155	7795	7170
65°	8185	6265	5150
70°	7197	4504	3206
75°	6058	2732	1822
80°	4672	1200	758
85°	2705	314	314



TEST NUMBER: P582873

CATALOG NUMBER: HC605D010-HM60525830-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	4.8
10°-20°	99.4	13.9
20°-30°	143.6	20.1
30°-40°	151.1	21.2
40°-50°	127.0	17.8
50°-60°	89.2	12.5
60°-70°	49.0	6.9
70°-80°	17.4	2.4
80°-90°	2.3	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°	277.6	38.9
0°-40°	428.7	60.1
0°-60°	645.0	90.4
0°-90°	713.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	364	364	364	364	364	
5°	367	366	363	362	361	35
15°	369	363	349	345	346	104
25°	342	325	302	302	308	156
35°	265	250	232	236	240	164
45°	169	164	160	164	166	133
55°	107	101	97	97	96	96
65°	63	56	48	40	40	63
75°	29	23	13	9	9	31
85°	4	2	0	0	0	6
90°	0	0	0	0	0	



TEST NUMBER: P582873

CATALOG NUMBER: HC605D010-HM60525830-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2	364.2
2.5°	364.2	364.2	363.7	363.7	362.8	362.8	362.3	362.3	362.3
5°	366.6	366.6	365.7	364.2	363.3	361.8	361.8	361.4	360.9
7.5°	368.0	367.6	366.1	364.2	361.8	359.5	358.5	359.0	358.5
10°	367.6	366.6	364.7	360.9	358.0	354.7	354.3	353.7	354.3
12.5°	368.5	367.1	363.3	358.5	353.7	350.0	349.4	349.4	350.0
15°	369.1	367.6	362.8	355.6	348.9	345.1	344.6	345.1	345.7
17.5°	367.6	365.7	358.5	348.9	341.3	337.5	337.5	338.4	339.5
20°	362.3	359.5	349.4	338.0	329.4	326.6	327.5	329.4	330.3
22.5°	352.8	349.4	338.0	325.1	316.1	313.6	316.1	318.4	319.3
25°	341.8	338.0	324.6	311.2	301.7	298.9	302.2	306.0	307.5
27.5°	327.0	322.7	310.3	295.0	285.4	284.1	287.8	292.1	293.1
30°	309.3	304.5	290.7	276.4	267.8	267.4	271.7	275.5	276.8
32.5°	287.8	283.5	271.7	257.3	249.6	249.6	253.9	257.3	258.8
35°	265.0	260.1	249.6	237.8	231.5	232.0	236.3	238.7	240.1
37.5°	237.8	236.3	228.1	218.2	213.9	214.8	218.2	220.0	221.5
40°	215.7	212.0	206.7	198.5	195.7	196.6	200.0	201.9	202.8
42.5°	191.9	189.5	185.2	179.4	177.5	179.0	181.9	183.3	182.8
45°	168.9	168.5	164.2	160.9	159.9	161.8	163.7	165.2	165.7
47.5°	152.3	150.4	146.6	144.2	143.2	145.1	147.0	148.0	148.0
50°	136.1	134.1	130.3	127.9	127.0	128.9	130.3	131.3	130.3
52.5°	119.8	117.9	114.6	111.8	111.2	112.2	112.7	113.1	114.1
55°	106.9	105.0	101.2	97.9	97.0	97.4	97.0	97.0	96.4
57.5°	94.5	92.7	88.8	85.0	83.5	83.1	81.6	81.1	80.7
60°	83.5	81.1	77.3	73.0	71.1	69.3	66.8	65.4	65.4
62.5°	73.0	70.6	66.3	62.5	59.7	56.3	52.5	50.6	50.6
65°	63.1	61.1	56.3	52.0	48.3	44.0	39.7	38.6	39.7
67.5°	53.4	51.5	46.8	42.5	37.7	32.4	28.6	28.6	29.6
70°	44.9	42.9	38.6	33.4	28.1	22.9	20.0	20.0	20.0
72.5°	36.7	34.8	30.1	25.3	20.0	14.8	13.3	13.9	13.3
75°	28.6	27.2	22.9	17.6	12.9	9.0	8.6	8.1	8.6
77.5°	21.5	20.0	16.3	11.4	7.1	5.2	4.7	4.7	4.7
80°	14.8	13.3	10.5	6.7	3.8	2.4	2.4	2.4	2.4
82.5°	9.0	7.7	5.8	3.4	1.5	1.5	1.5	1.5	1.5
85°	4.3	3.4	2.4	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.9	0.9	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



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)