

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: P581774

Luminaire Tested: **HC615D010-HM60525927-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1247.6 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

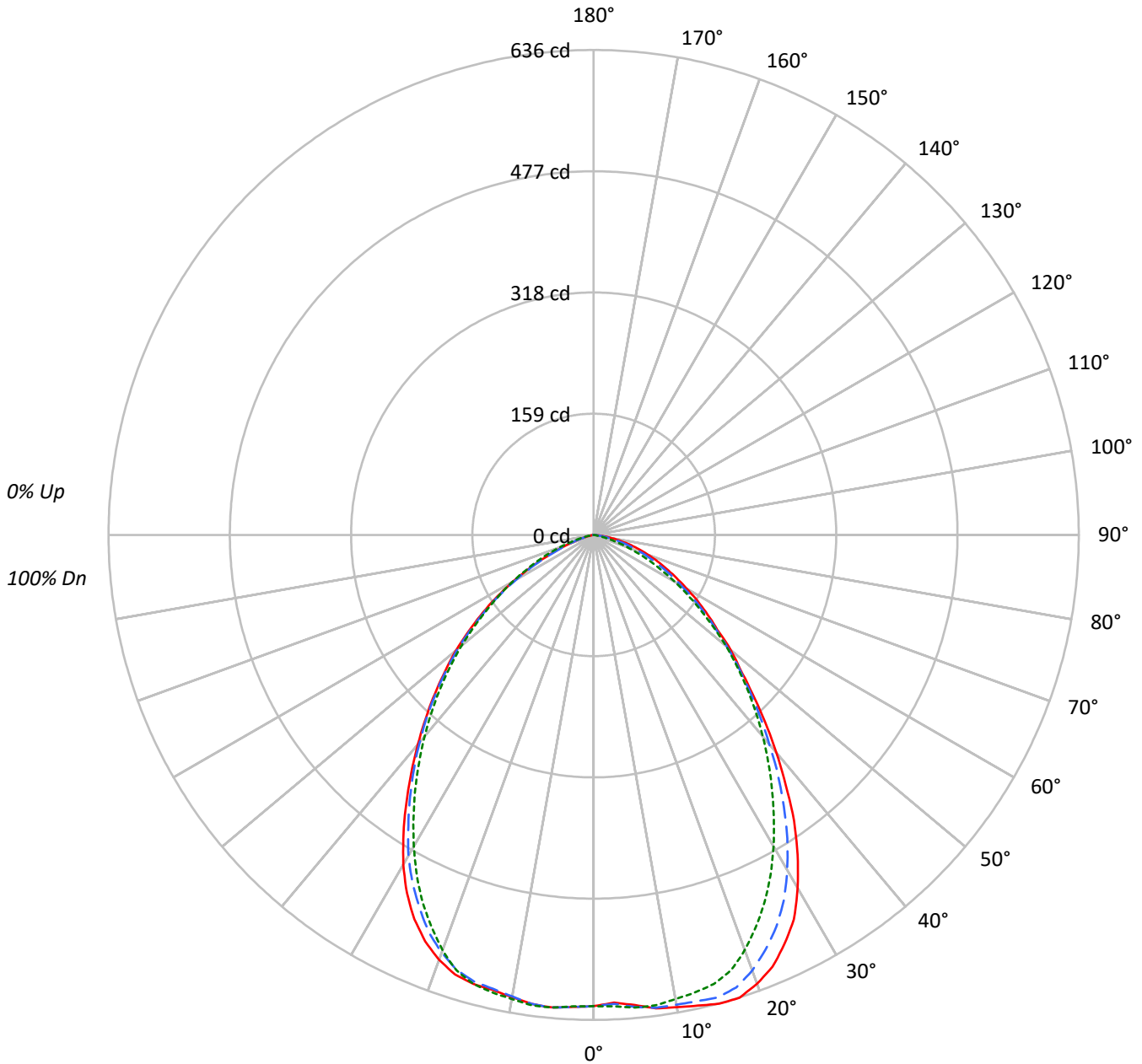
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581774

CATALOG NUMBER: HC615D010-HM60525927-61RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P581774

CATALOG NUMBER: HC615D010-HM60525927-61RWWC

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	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60																			
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	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	33879	33879	33879
5°	34052	34239	34239
10°	35008	34402	34262
15°	36118	34597	34597
20°	36537	33801	34583
25°	35809	32107	33631
30°	33866	29846	31593
35°	30657	27291	28636
40°	26664	24689	25648
45°	22793	22010	22793
50°	19999	19283	20068
55°	17443	16248	16888
60°	15415	13497	13310
65°	13698	10650	9132
70°	12085	7517	5498
75°	10294	4257	2669
80°	7671	1326	789
85°	4214	503	503



TEST NUMBER: P581774

CATALOG NUMBER: HC615D010-HM60525927-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	4.8
10°-20°	173.4	13.9
20°-30°	253.3	20.3
30°-40°	265.7	21.3
40°-50°	223.8	17.9
50°-60°	156.8	12.6
60°-70°	84.1	6.7
70°-80°	28.2	2.3
80°-90°	3.1	0.2
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°	486.0	39.0
0°-40°	751.7	60.2
0°-60°	1132.3	90.8
0°-90°	1247.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	618	618	618	618	618	
5°	619	621	622	622	622	59
15°	636	628	610	606	610	180
25°	592	567	531	540	556	271
35°	458	435	408	420	428	284
45°	294	289	284	291	294	229
55°	182	177	170	173	177	164
65°	106	96	82	68	70	105
75°	49	38	20	13	13	52
85°	7	3	1	1	1	9
90°	0	0	0	0	0	



TEST NUMBER: P581774

CATALOG NUMBER: HC615D010-HM60525927-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
2.5°	613.8	613.8	615.5	617.1	618.8	618.8	619.6	620.5	619.6
5°	618.8	618.8	621.3	622.2	622.2	621.3	622.2	622.2	622.2
7.5°	626.3	624.7	625.5	623.8	622.2	621.3	620.5	620.5	620.5
10°	628.9	627.2	625.5	622.2	618.0	615.5	614.6	615.5	615.5
12.5°	632.2	630.5	626.3	619.6	614.6	610.4	609.6	611.3	611.3
15°	636.4	634.7	628.0	617.1	609.6	605.4	606.2	607.9	609.6
17.5°	636.4	633.0	622.2	607.9	598.7	594.5	597.9	602.1	604.6
20°	626.3	623.0	607.9	590.3	579.4	576.9	582.8	590.3	592.8
22.5°	612.9	606.2	588.6	567.7	556.0	556.0	564.4	573.6	576.9
25°	592.0	587.0	566.9	542.6	530.8	530.0	540.1	552.6	556.0
27.5°	568.5	561.8	540.1	514.9	502.5	503.3	514.2	526.8	530.0
30°	535.0	526.8	507.5	483.2	471.5	474.8	485.7	494.9	499.1
32.5°	497.4	489.9	472.3	449.7	439.6	443.0	452.2	460.6	463.9
35°	458.1	449.7	434.6	414.5	407.8	411.1	419.5	426.2	427.9
37.5°	413.7	407.8	396.9	381.0	376.0	380.1	386.8	391.0	392.7
40°	372.6	367.6	358.4	346.6	345.0	348.3	355.0	357.5	358.4
42.5°	332.4	328.2	322.3	314.1	314.1	317.3	323.2	325.0	325.7
45°	294.0	291.4	288.9	282.2	283.9	288.1	291.4	294.0	294.0
47.5°	260.4	261.3	257.9	252.9	254.6	258.8	261.3	263.8	263.8
50°	234.5	232.0	228.6	223.6	226.1	229.4	232.8	234.5	235.3
52.5°	204.3	203.5	201.0	195.1	196.8	198.4	201.8	204.3	205.2
55°	182.5	180.0	176.7	170.0	170.0	171.6	173.3	175.0	176.7
57.5°	161.6	159.1	154.0	146.5	145.7	145.7	144.8	146.5	149.0
60°	140.6	139.8	132.3	125.6	123.1	120.5	117.2	118.0	121.4
62.5°	122.2	120.5	113.8	105.6	100.4	96.2	92.2	91.3	94.7
65°	105.6	103.9	96.2	88.0	82.1	74.6	67.9	67.9	70.4
67.5°	90.5	87.1	80.4	71.2	63.7	54.5	47.8	49.4	50.3
70°	75.4	72.9	65.3	56.1	46.9	37.7	33.5	34.3	34.3
72.5°	62.0	58.6	51.1	41.9	32.7	24.3	22.6	21.8	21.8
75°	48.6	45.2	37.7	28.5	20.1	14.2	12.6	12.6	12.6
77.5°	35.2	32.7	26.0	17.6	10.9	6.7	5.9	5.0	5.0
80°	24.3	21.8	15.9	9.2	4.2	2.5	2.5	2.5	2.5
82.5°	14.2	11.7	7.5	4.2	1.7	0.8	0.8	0.8	0.8
85°	6.7	5.0	3.4	1.7	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	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)