

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: P582933

Luminaire Tested: **HC605D010-HM60525927-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525927-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 474.9 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

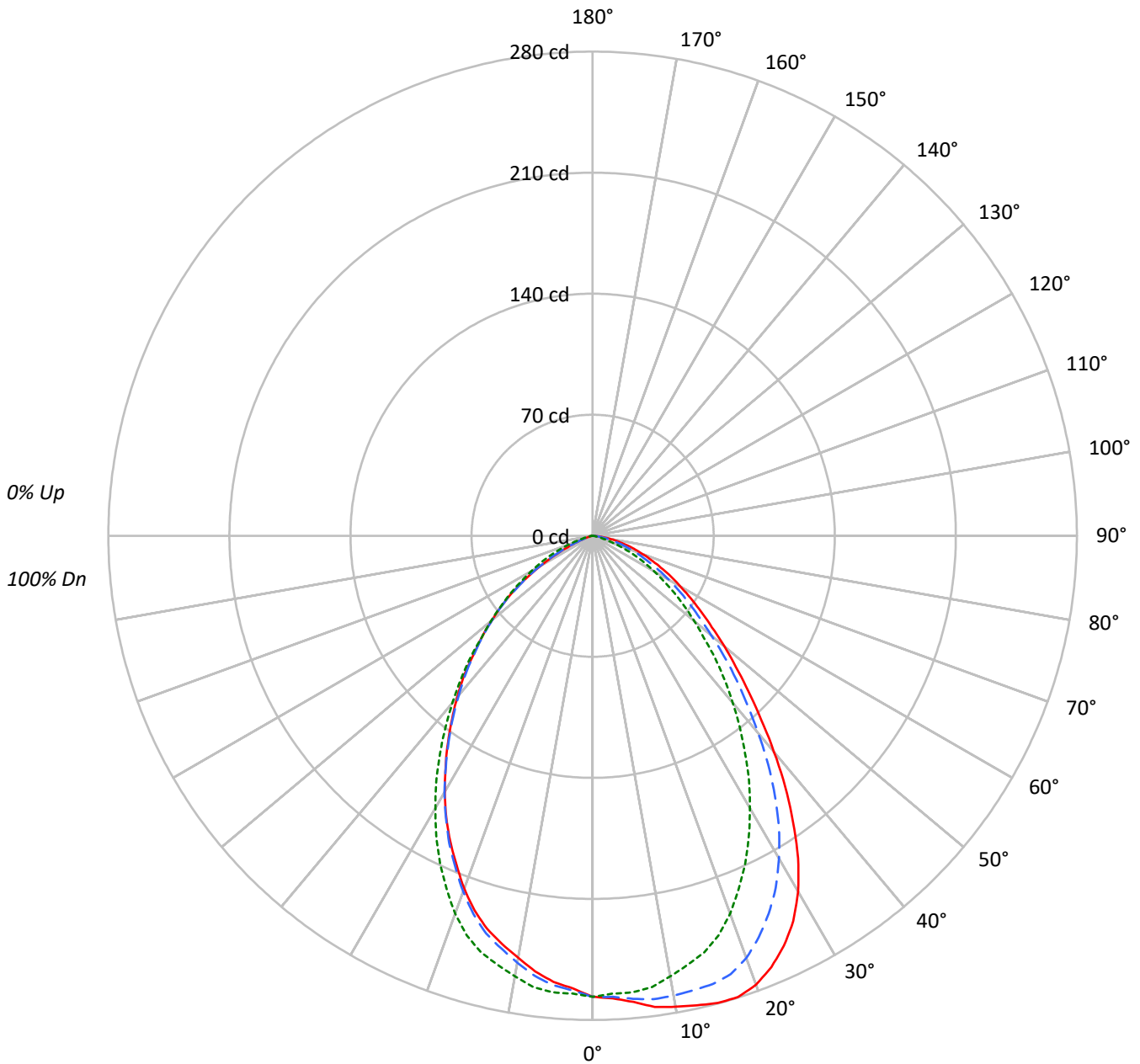
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	67	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44																			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37																			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14615	14615	14615
5°	14891	14583	14253
10°	15397	14401	13794
15°	15874	14149	13360
20°	16119	13558	12665
25°	15830	12630	11789
30°	15040	11508	10824
35°	13518	10286	9757
40°	11672	9017	8716
45°	9885	7760	7559
50°	8469	6550	6482
55°	7340	5515	5304
60°	6414	4484	3783
65°	5643	3463	2101
70°	4873	2276	1010
75°	4130	1101	402
80°	3220	474	253
85°	1950	189	189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	5.3
10°-20°	71.1	15.0
20°-30°	100.2	21.1
30°-40°	102.3	21.5
40°-50°	82.5	17.4
50°-60°	55.3	11.7
60°-70°	28.0	5.9
70°-80°	9.0	1.9
80°-90°	1.4	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°	196.4	41.4
0°-40°	298.8	62.9
0°-60°	436.6	91.9
0°-90°	474.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	474.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	267	267	267	267	267	
5°	271	269	265	261	259	26
15°	280	268	249	238	235	79
25°	262	241	209	196	195	120
35°	202	184	154	145	146	126
45°	128	117	100	97	98	99
55°	77	68	58	55	56	69
65°	44	36	27	18	16	43
75°	20	14	5	2	2	21
85°	3	2	0	0	0	4
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°	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6	266.6
2.5°	267.7	267.2	266.9	266.1	265.0	263.9	263.2	262.4	262.0
5°	270.6	270.0	268.8	267.2	265.0	262.4	260.9	259.4	259.0
7.5°	274.8	273.2	270.3	266.9	263.2	259.4	256.7	255.3	254.1
10°	276.6	274.0	270.0	264.3	258.7	254.1	250.7	248.5	247.8
12.5°	278.1	275.2	269.2	261.7	254.1	248.1	244.4	242.5	241.8
15°	279.7	276.6	268.4	258.7	249.3	242.2	238.1	236.2	235.4
17.5°	279.7	275.5	265.8	253.5	242.2	233.6	229.4	227.6	227.1
20°	276.3	271.8	259.8	245.2	232.4	222.7	218.9	217.8	217.1
22.5°	270.0	264.6	251.2	234.7	220.8	211.4	207.4	206.6	205.8
25°	261.7	256.4	241.0	223.4	208.8	199.4	196.1	195.3	194.9
27.5°	251.2	245.5	229.4	211.4	195.7	186.7	183.7	183.7	183.3
30°	237.6	231.3	215.5	197.5	181.8	173.6	171.3	171.3	171.0
32.5°	221.1	214.8	200.6	183.3	168.3	159.7	157.9	158.5	158.2
35°	202.0	196.8	183.7	166.8	153.7	145.8	145.1	145.8	145.8
37.5°	182.9	178.1	166.8	152.2	139.8	132.7	132.7	133.8	133.5
40°	163.1	159.3	148.8	136.1	126.0	121.1	120.3	121.5	121.8
42.5°	144.3	141.4	132.3	121.8	112.9	107.9	109.0	109.8	110.2
45°	127.5	124.4	117.3	106.4	100.1	96.7	96.7	97.9	97.5
47.5°	112.4	110.2	103.1	92.5	87.0	85.4	86.2	87.0	87.0
50°	99.3	95.9	89.3	81.0	76.8	74.9	75.7	76.0	76.0
52.5°	87.0	84.7	78.0	70.5	66.7	65.7	65.7	66.0	66.0
55°	76.8	74.2	68.3	60.7	57.7	56.3	55.1	54.7	55.5
57.5°	67.1	64.9	59.2	52.1	48.7	47.2	45.0	44.2	45.0
60°	58.5	56.6	51.0	44.2	40.9	37.9	35.3	33.8	34.5
62.5°	51.0	48.7	43.1	37.5	33.8	30.4	26.2	24.0	25.1
65°	43.5	41.6	35.9	30.4	26.7	22.5	17.6	16.2	16.2
67.5°	36.7	34.9	29.6	24.7	20.2	15.4	10.8	10.5	10.8
70°	30.4	28.5	24.0	19.1	14.2	9.4	6.3	6.3	6.3
72.5°	25.1	22.8	18.8	13.9	9.0	4.9	3.4	3.7	3.7
75°	19.5	17.6	13.9	9.4	5.2	2.3	1.9	1.9	1.9
77.5°	14.6	13.1	9.7	6.0	2.6	0.8	0.8	0.8	0.8
80°	10.2	8.6	6.3	3.7	1.5	0.8	0.8	0.8	0.8
82.5°	6.0	5.2	3.7	1.9	0.8	0.3	0.3	0.3	0.3
85°	3.1	2.6	1.5	0.8	0.3	0.3	0.3	0.3	0.3
87.5°	0.8	0.8	0.3	0.3	0.0	0.3	0.3	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)