

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: P582897

Luminaire Tested: **HC605D010-HM60525835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582897
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-HM60525835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 614.6 lumens
Efficiency: N/A
Efficacy: 102.4 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

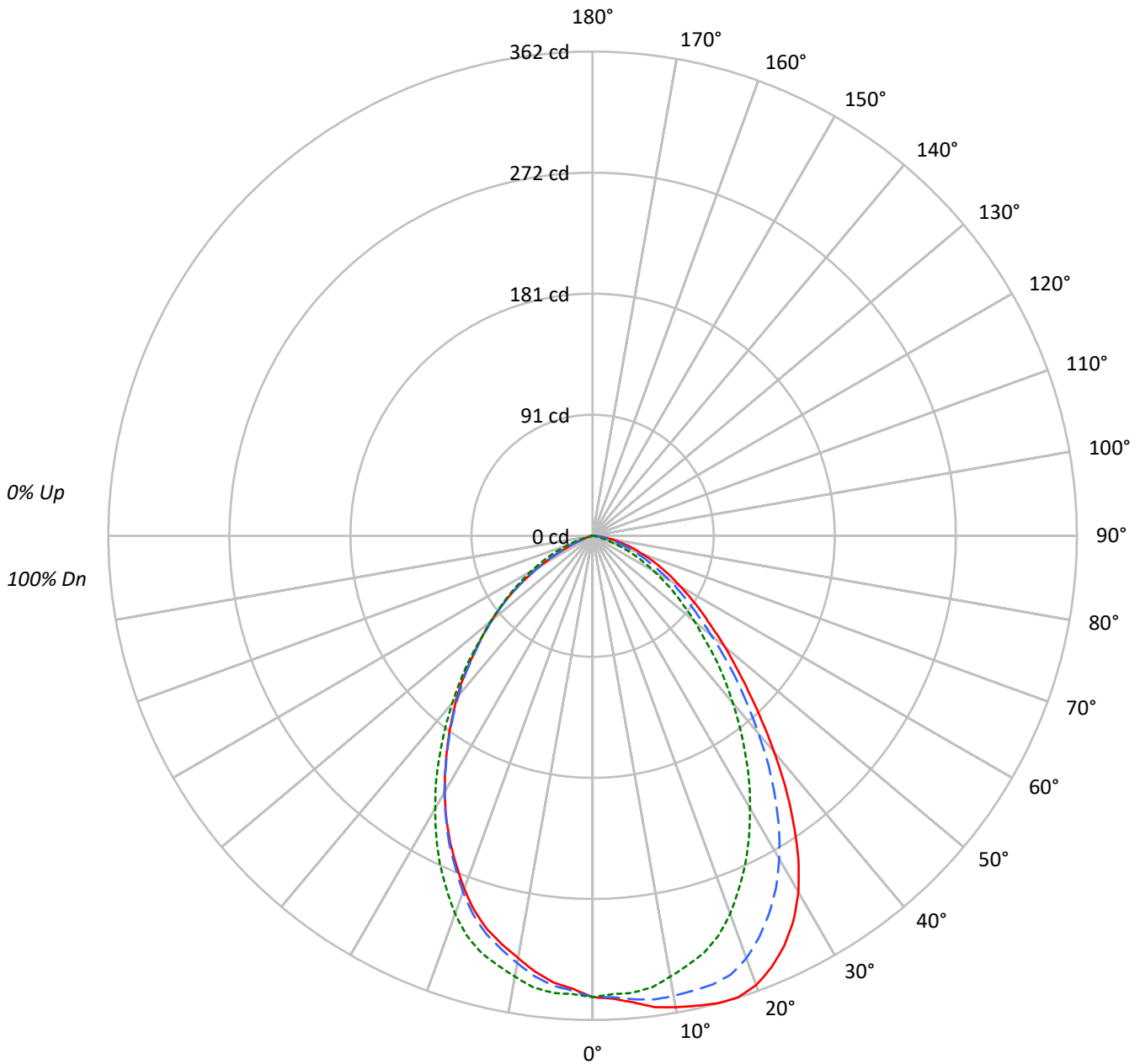
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69			69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61			61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44			44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40			40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37			37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34			34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18907	18907	18907
5°	19271	18875	18446
10°	19928	18631	17846
15°	20534	18303	17287
20°	20856	17542	16381
25°	20475	16344	15255
30°	19465	14895	13996
35°	17500	13311	12628
40°	15100	11658	11278
45°	12784	10040	9776
50°	10968	8477	8392
55°	9500	7140	6862
60°	8300	5800	4890
65°	7303	4475	2711
70°	6299	2949	1314
75°	5338	1440	508
80°	4136	600	316
85°	2390	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	5.3
10°-20°	92.0	15.0
20°-30°	129.6	21.1
30°-40°	132.4	21.5
40°-50°	106.8	17.4
50°-60°	71.6	11.7
60°-70°	36.2	5.9
70°-80°	11.6	1.9
80°-90°	1.8	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°	254.2	41.4
0°-40°	386.6	62.9
0°-60°	565.0	91.9
0°-90°	614.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	345	345	345	345	345	
5°	350	348	343	338	335	34
15°	362	347	322	308	305	102
25°	338	312	270	254	252	155
35°	262	238	199	188	189	163
45°	165	152	130	125	126	128
55°	99	88	75	71	72	89
65°	56	47	34	23	21	56
75°	25	18	7	2	2	27
85°	4	2	0	0	0	5
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°	344.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9
2.5°	346.3	345.9	345.3	344.4	343.0	341.5	340.5	339.6	339.0
5°	350.2	349.3	347.8	345.9	343.0	339.6	337.6	335.6	335.2
7.5°	355.5	353.6	349.7	345.3	340.5	335.6	332.2	330.3	328.8
10°	358.0	354.6	349.3	341.9	334.7	328.8	324.5	321.6	320.6
12.5°	359.9	356.1	348.3	338.5	328.8	321.1	316.3	313.8	312.9
15°	361.8	358.0	347.2	334.7	322.5	313.3	308.0	305.6	304.6
17.5°	361.8	356.5	343.9	327.9	313.3	302.2	296.9	294.5	293.9
20°	357.5	351.7	336.2	317.2	300.7	288.2	283.3	281.8	280.8
22.5°	349.3	342.4	325.0	303.6	285.7	273.6	268.3	267.2	266.3
25°	338.5	331.8	311.9	289.1	270.2	258.1	253.7	252.7	252.2
27.5°	325.0	317.8	296.9	273.6	253.2	241.6	237.6	237.6	237.2
30°	307.5	299.2	278.9	255.6	235.3	224.5	221.7	221.7	221.1
32.5°	286.2	278.0	259.4	237.2	217.8	206.7	204.2	205.2	204.6
35°	261.5	254.7	237.6	215.8	198.9	188.7	187.7	188.7	188.7
37.5°	236.7	230.4	215.8	197.0	180.9	171.8	171.8	173.1	172.7
40°	211.0	206.1	192.6	176.1	162.9	156.6	155.7	157.2	157.6
42.5°	186.8	182.8	171.2	157.6	146.0	139.7	141.1	142.2	142.6
45°	164.9	161.0	151.9	137.7	129.5	125.1	125.1	126.6	126.1
47.5°	145.5	142.6	133.3	119.8	112.5	110.6	111.5	112.5	112.5
50°	128.6	124.2	115.5	104.8	99.4	97.0	98.0	98.4	98.4
52.5°	112.5	109.6	100.9	91.2	86.3	84.9	84.9	85.3	85.3
55°	99.4	96.0	88.3	78.5	74.7	72.8	71.3	70.9	71.8
57.5°	86.8	84.0	76.6	67.5	63.1	61.1	58.2	57.3	58.2
60°	75.7	73.2	66.0	57.3	52.9	49.0	45.5	43.6	44.6
62.5°	66.0	63.1	55.8	48.5	43.6	39.3	33.9	31.1	32.5
65°	56.3	53.8	46.6	39.3	34.5	29.2	22.8	20.9	20.9
67.5°	47.6	45.1	38.3	32.0	26.2	19.9	14.0	13.6	14.0
70°	39.3	36.8	31.1	24.7	18.4	12.1	8.2	8.2	8.2
72.5°	32.5	29.6	24.3	18.0	11.6	6.3	4.4	4.9	4.9
75°	25.2	22.8	18.0	12.1	6.8	2.9	2.4	2.4	2.4
77.5°	18.9	17.0	12.7	7.8	3.4	1.0	1.0	1.0	1.0
80°	13.1	11.2	8.2	4.9	1.9	1.0	1.0	1.0	1.0
82.5°	7.8	6.8	4.9	2.4	1.0	0.5	0.5	0.5	0.5
85°	3.8	3.4	1.9	1.0	0.5	0.5	0.5	0.5	0.5
87.5°	1.0	1.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)