

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: P582951

Luminaire Tested: **HC605D010-HM60525930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582951
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-HM60525930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 518.5 lumens
Efficiency: N/A
Efficacy: 86.4 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

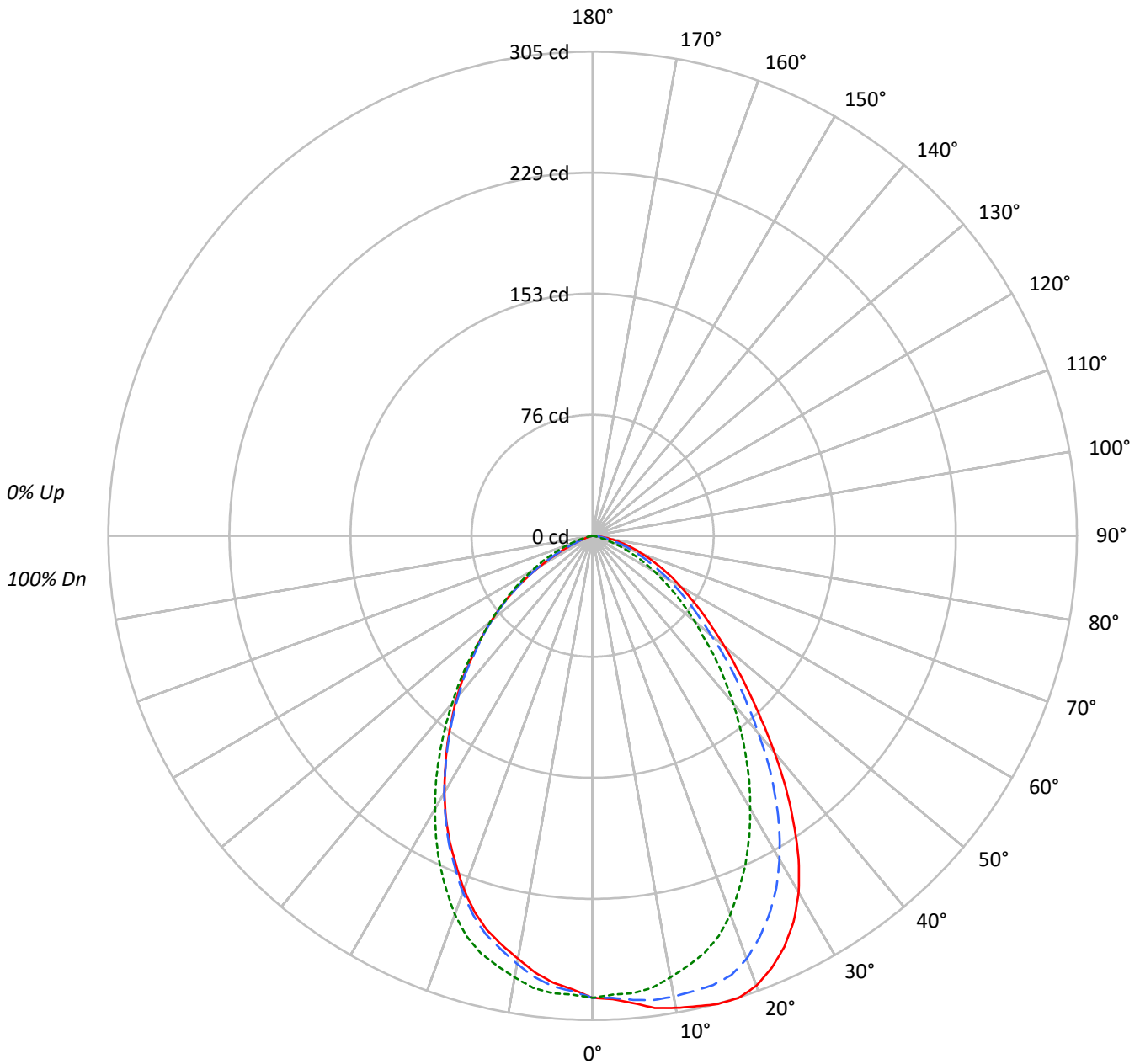
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15953	15953	15953
5°	16261	15920	15557
10°	16811	15720	15058
15°	17327	15443	14586
20°	17595	14800	13826
25°	17281	13785	12872
30°	16420	12559	11812
35°	14763	11230	10654
40°	12738	9840	9518
45°	10784	8474	8249
50°	9253	7147	7087
55°	8009	6031	5792
60°	6995	4890	4122
65°	6161	3762	2283
70°	5305	2500	1122
75°	4490	1228	424
80°	3504	505	253
85°	2076	314	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	5.3
10°-20°	77.6	15.0
20°-30°	109.3	21.1
30°-40°	111.7	21.5
40°-50°	90.1	17.4
50°-60°	60.4	11.7
60°-70°	30.6	5.9
70°-80°	9.8	1.9
80°-90°	1.5	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°	214.4	41.4
0°-40°	326.2	62.9
0°-60°	476.6	91.9
0°-90°	518.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	291	291	291	291	291	
5°	296	294	289	285	283	28
15°	305	293	272	260	257	86
25°	286	263	228	214	213	131
35°	221	201	168	158	159	137
45°	139	128	109	106	106	108
55°	84	74	63	60	61	75
65°	48	39	29	19	18	47
75°	21	15	6	2	2	23
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°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0
2.5°	292.2	291.8	291.3	290.5	289.3	288.2	287.2	286.5	286.0
5°	295.5	294.6	293.5	291.8	289.3	286.5	284.9	283.2	282.7
7.5°	300.0	298.3	295.0	291.3	287.2	283.2	280.4	278.7	277.4
10°	302.0	299.1	294.6	288.5	282.4	277.4	273.8	271.3	270.5
12.5°	303.6	300.4	293.8	285.7	277.4	270.9	266.8	264.8	264.0
15°	305.3	302.0	293.0	282.4	272.1	264.3	259.9	257.9	257.0
17.5°	305.3	300.8	290.2	276.6	264.3	254.9	250.4	248.4	248.0
20°	301.6	296.7	283.6	267.6	253.7	243.1	239.0	237.8	237.0
22.5°	294.6	288.9	274.1	256.2	241.0	230.9	226.3	225.4	224.6
25°	285.7	279.9	263.2	243.9	227.9	217.8	214.0	213.2	212.8
27.5°	274.1	268.0	250.4	230.9	213.6	203.7	200.6	200.6	200.1
30°	259.4	252.4	235.3	215.7	198.4	189.5	187.0	187.0	186.6
32.5°	241.5	234.5	218.9	200.1	183.7	174.4	172.3	173.1	172.7
35°	220.6	214.8	200.6	182.2	167.8	159.2	158.4	159.2	159.2
37.5°	199.7	194.4	182.2	166.1	152.7	144.9	144.9	146.1	145.7
40°	178.0	173.9	162.5	148.6	137.5	132.2	131.3	132.5	133.0
42.5°	157.5	154.2	144.4	133.0	123.2	117.9	119.1	119.9	120.3
45°	139.1	135.8	128.1	116.2	109.3	105.5	105.5	106.8	106.4
47.5°	122.7	120.3	112.5	101.0	94.9	93.3	94.1	94.9	94.9
50°	108.5	104.8	97.4	88.4	83.8	81.8	82.7	83.1	83.1
52.5°	94.9	92.4	85.1	77.0	72.9	71.6	71.6	72.0	72.0
55°	83.8	81.0	74.5	66.3	63.1	61.4	60.1	59.8	60.6
57.5°	73.2	70.9	64.6	56.8	53.2	51.5	49.2	48.3	49.2
60°	63.8	61.8	55.7	48.3	44.6	41.4	38.4	36.8	37.6
62.5°	55.7	53.2	47.0	40.9	36.8	33.1	28.7	26.2	27.5
65°	47.5	45.4	39.3	33.1	29.0	24.5	19.2	17.6	17.6
67.5°	40.1	38.1	32.3	27.0	22.1	16.7	11.9	11.4	11.9
70°	33.1	31.1	26.2	20.9	15.6	10.3	7.0	7.0	7.0
72.5°	27.5	25.0	20.5	15.1	9.8	5.3	3.7	4.1	4.1
75°	21.2	19.2	15.1	10.3	5.8	2.5	2.0	2.0	2.0
77.5°	15.9	14.4	10.6	6.6	2.8	0.8	0.8	0.8	0.8
80°	11.1	9.4	7.0	4.1	1.6	0.8	0.8	0.8	0.8
82.5°	6.6	5.8	4.1	2.0	0.8	0.5	0.5	0.5	0.5
85°	3.3	2.8	1.6	0.8	0.5	0.5	0.5	0.5	0.5
87.5°	0.8	0.8	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)