

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: P581649

Luminaire Tested: **HC610D010-HM60525930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581649
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: HC610D010-HM60525930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1000.2 lumens
Efficiency: N/A
Efficacy: 101.0 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

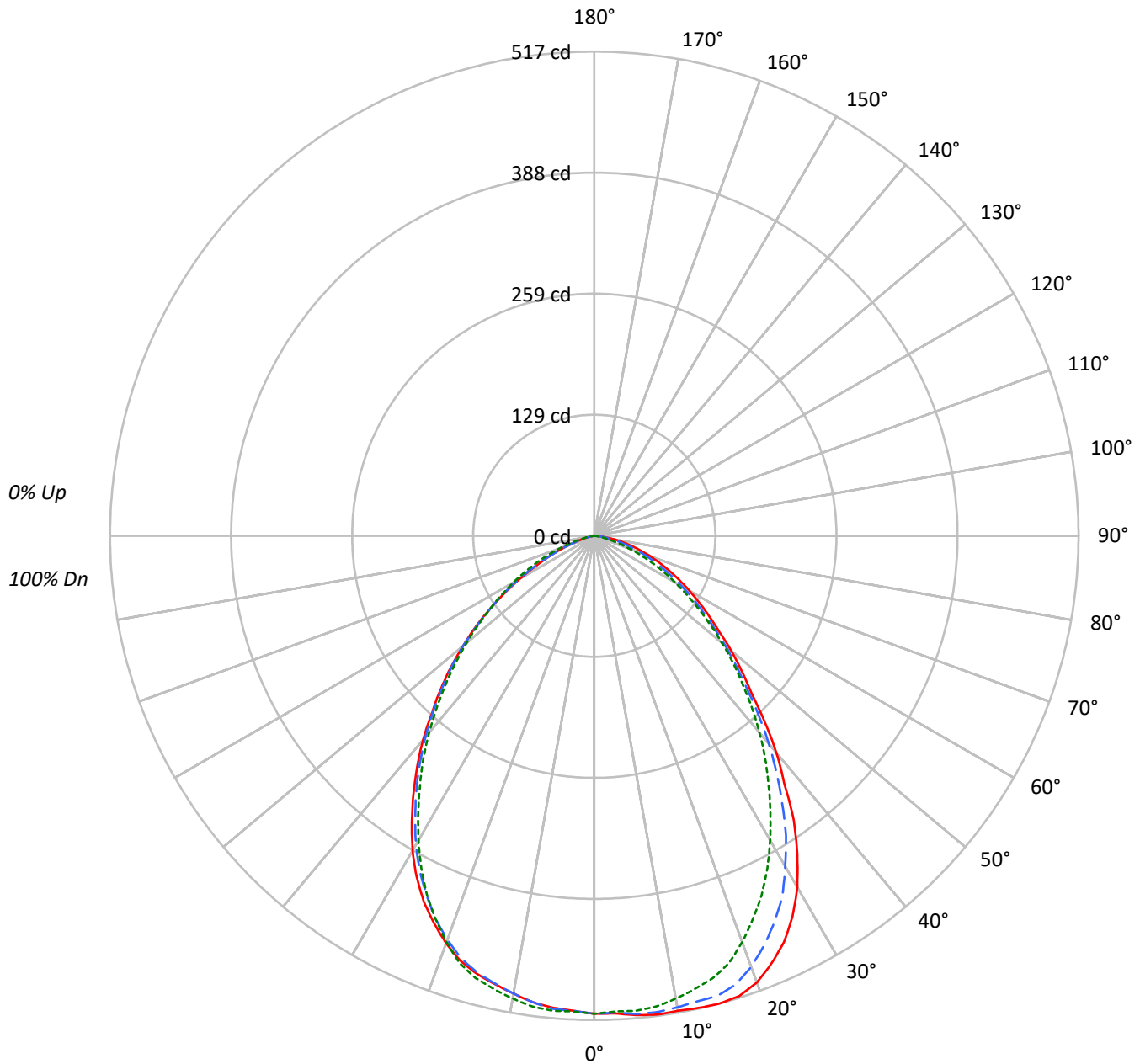
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	93	92	90	88		
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77		
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
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	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	27980	27980	27980
5°	28274	28016	27834
10°	28673	27928	27633
15°	29348	27753	27492
20°	29618	26929	27005
25°	28967	25574	26058
30°	27435	23757	24561
35°	24849	21710	22520
40°	21641	19630	20352
45°	18358	17374	18002
50°	16255	15181	15573
55°	14327	12979	12922
60°	12828	10931	10054
65°	11454	8769	7199
70°	10066	6331	4504
75°	8515	3834	2542
80°	6535	1673	1073
85°	3774	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	4.8
10°-20°	139.3	13.9
20°-30°	201.3	20.1
30°-40°	211.8	21.2
40°-50°	178.1	17.8
50°-60°	125.0	12.5
60°-70°	68.7	6.9
70°-80°	24.4	2.4
80°-90°	3.2	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°	389.0	38.9
0°-40°	600.8	60.1
0°-60°	903.8	90.4
0°-90°	1000.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1000.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	510	510	510	510	510	
5°	514	512	509	507	506	49
15°	517	508	489	483	484	146
25°	479	455	423	424	431	219
35°	371	350	324	331	336	230
45°	237	230	224	230	232	186
55°	150	142	136	136	135	135
65°	88	79	68	56	56	88
75°	40	32	18	12	12	43
85°	6	3	1	1	1	8
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°	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	510.4	510.4	509.7	509.7	508.4	508.4	507.7	507.7	507.7
5°	513.8	513.8	512.5	510.4	509.1	507.0	507.0	506.5	505.8
7.5°	515.7	515.1	513.1	510.4	507.0	503.7	502.4	503.1	502.4
10°	515.1	513.8	511.1	505.8	501.7	497.1	496.4	495.7	496.4
12.5°	516.4	514.4	509.1	502.4	495.7	490.4	489.7	489.7	490.4
15°	517.1	515.1	508.4	498.4	489.0	483.7	483.0	483.7	484.4
17.5°	515.1	512.5	502.4	489.0	478.3	472.9	472.9	474.3	475.7
20°	507.7	503.7	489.7	473.6	461.6	457.6	458.9	461.6	462.9
22.5°	494.3	489.7	473.6	455.5	442.8	439.6	442.8	446.2	447.5
25°	478.9	473.6	455.0	436.2	422.8	418.7	423.5	428.8	430.8
27.5°	458.2	452.2	434.8	413.4	400.0	398.0	403.3	409.4	410.7
30°	433.4	426.8	407.4	387.4	375.3	374.6	380.7	386.0	388.0
32.5°	403.3	397.3	380.7	360.5	349.9	349.9	355.9	360.5	362.6
35°	371.3	364.6	349.9	333.1	324.4	325.1	331.1	334.5	336.5
37.5°	333.1	331.1	319.8	305.8	299.6	301.0	305.8	308.4	310.4
40°	302.4	297.0	289.7	278.2	274.3	275.6	280.3	283.0	284.4
42.5°	269.0	265.6	259.6	251.5	248.8	250.9	254.9	256.9	256.2
45°	236.8	236.1	230.1	225.5	224.1	226.7	229.5	231.5	232.2
47.5°	213.4	210.8	205.3	202.1	200.7	203.4	206.0	207.4	207.4
50°	190.6	188.0	182.6	179.3	178.0	180.7	182.6	184.0	182.6
52.5°	167.9	165.3	160.5	156.6	155.9	157.2	157.9	158.6	159.8
55°	149.9	147.2	141.8	137.1	135.8	136.5	135.8	135.8	135.2
57.5°	132.4	129.7	124.4	119.1	117.0	116.4	114.4	113.8	113.1
60°	117.0	113.8	108.3	102.3	99.7	97.0	93.6	91.7	91.7
62.5°	102.3	99.0	92.9	87.6	83.7	78.9	73.6	70.9	70.9
65°	88.3	85.6	78.9	72.9	67.6	61.6	55.5	54.2	55.5
67.5°	74.9	72.2	65.5	59.5	52.9	45.5	40.2	40.2	41.4
70°	62.8	60.2	54.2	46.9	39.5	32.1	28.1	28.1	28.1
72.5°	51.5	48.8	42.1	35.4	28.1	20.7	18.7	19.4	18.7
75°	40.2	38.1	32.1	24.8	18.1	12.7	12.0	11.3	12.0
77.5°	30.1	28.1	22.8	16.1	10.1	7.4	6.7	6.7	6.7
80°	20.7	18.7	14.7	9.4	5.3	3.4	3.4	3.4	3.4
82.5°	12.7	10.8	8.0	4.6	2.0	2.0	2.0	2.0	2.0
85°	6.0	4.6	3.4	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	0.7	0.7	0.0	0.7	0.7	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)