

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: P593086

Luminaire Tested: **HC610D010-HM60525950-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525950-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 986.9 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

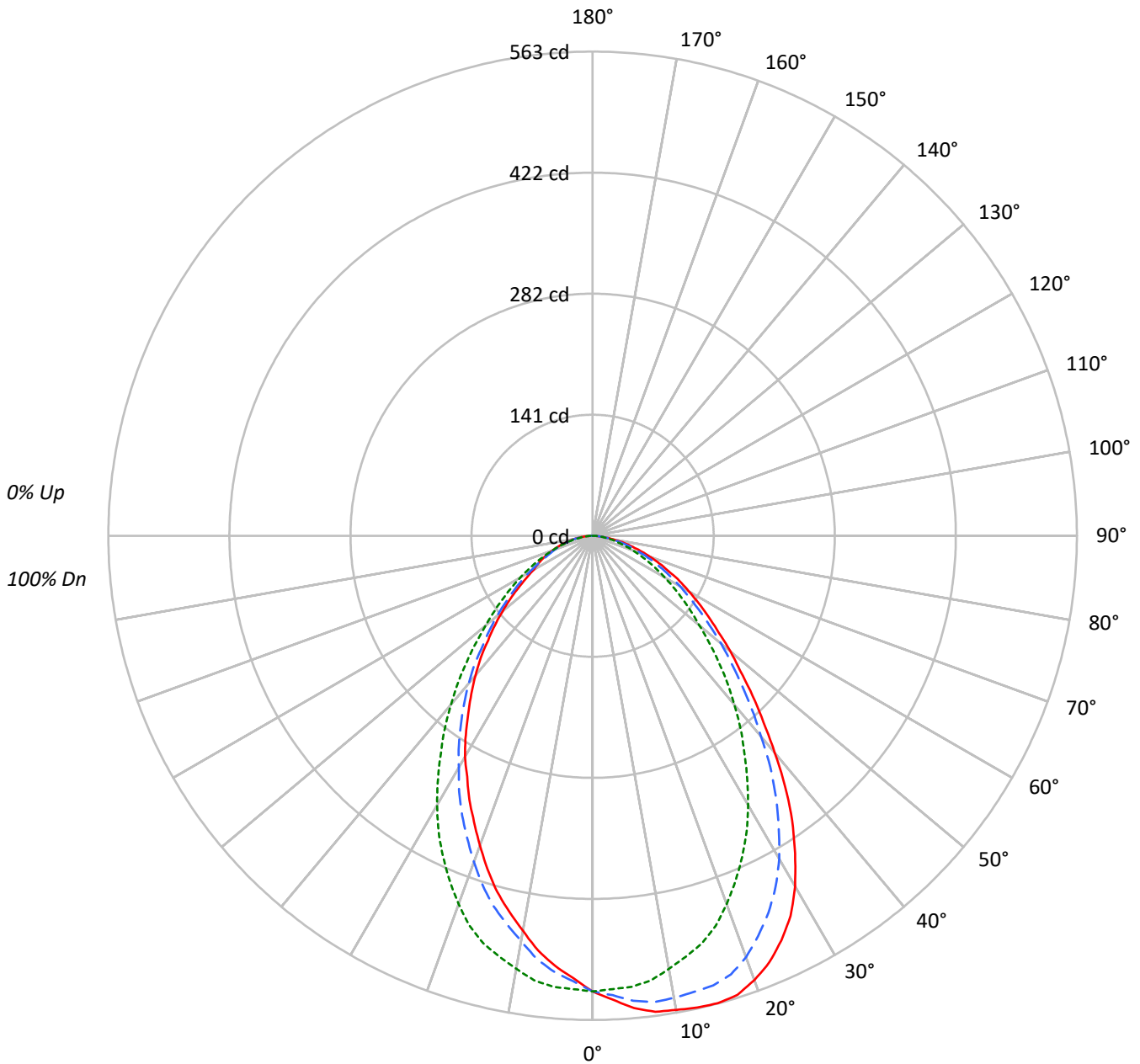
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29044	29044	29044
5°	30332	28962	27625
10°	31162	28462	25963
15°	31930	27844	24325
20°	32074	26579	22344
25°	31399	24891	20487
30°	29796	22890	18781
35°	27064	20565	16851
40°	23573	18313	15157
45°	20397	16033	13319
50°	17825	13808	11676
55°	15741	12129	10016
60°	14144	10635	8673
65°	12673	9249	8419
70°	11316	7886	7886
75°	9807	6651	7413
80°	7861	5619	6756
85°	5409	4906	5850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	5.0
10°-20°	138.4	14.0
20°-30°	192.9	19.5
30°-40°	198.8	20.1
40°-50°	164.7	16.7
50°-60°	118.4	12.0
60°-70°	75.4	7.6
70°-80°	38.7	3.9
80°-90°	9.8	1.0
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°	381.1	38.6
0°-40°	579.9	58.8
0°-60°	863.0	87.4
0°-90°	986.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	986.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	530	530	530	530	530	
5°	551	543	526	509	502	53
15°	563	541	491	446	429	159
25°	519	484	412	359	339	238
35°	404	372	307	267	252	251
45°	263	245	207	180	172	204
55°	165	151	127	113	105	148
65°	98	87	71	62	65	98
75°	46	40	31	33	35	49
85°	9	8	8	9	9	11
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°	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8	529.8
2.5°	539.9	537.7	534.8	531.9	527.6	522.6	518.5	517.0	514.8
5°	551.2	548.3	542.7	535.5	526.3	517.0	509.2	504.2	502.0
7.5°	558.3	554.8	547.0	534.8	521.3	507.7	496.3	489.1	486.3
10°	559.8	556.2	545.5	529.1	511.3	492.8	478.5	469.9	466.4
12.5°	561.9	556.9	543.4	524.1	501.2	479.9	462.1	451.3	447.8
15°	562.6	556.9	541.2	517.7	490.6	464.9	445.7	432.9	428.6
17.5°	559.8	553.3	534.8	506.3	475.7	448.5	425.7	412.2	406.5
20°	549.8	542.7	521.3	489.1	455.6	427.1	403.6	389.3	383.0
22.5°	536.9	527.6	503.4	469.2	434.2	404.4	380.8	366.5	360.1
25°	519.1	510.5	483.5	447.1	411.5	380.1	358.7	343.7	338.7
27.5°	498.4	488.5	460.6	424.3	387.9	356.6	335.9	322.3	315.9
30°	470.7	461.4	433.6	397.2	361.6	332.2	311.0	299.5	296.7
32.5°	437.9	429.9	402.9	368.7	334.4	307.3	289.6	277.3	274.5
35°	404.4	395.1	371.5	339.4	307.3	283.1	266.7	255.9	251.8
37.5°	367.9	359.4	339.4	311.0	282.4	259.6	245.3	236.0	231.7
40°	329.4	323.1	304.5	281.6	255.9	236.0	223.9	216.1	211.8
42.5°	293.8	287.4	274.5	253.1	231.7	213.9	203.2	196.1	192.6
45°	263.1	257.4	244.6	226.1	206.8	191.9	180.4	175.5	171.8
47.5°	232.5	229.6	218.2	201.0	183.3	170.5	162.6	156.9	154.1
50°	209.0	205.3	194.7	176.8	161.9	151.9	144.8	139.8	136.9
52.5°	184.7	181.1	171.2	156.2	144.0	134.8	127.7	123.4	120.6
55°	164.7	161.9	151.1	137.7	126.9	119.1	112.6	107.7	104.8
57.5°	146.1	143.3	133.3	120.6	111.3	104.1	98.4	94.2	90.6
60°	129.0	126.9	116.9	104.8	97.0	89.9	84.9	81.3	79.1
62.5°	114.1	109.8	101.3	90.6	83.4	77.8	72.8	70.6	72.0
65°	97.7	95.5	87.1	77.8	71.3	65.7	62.0	63.5	64.9
67.5°	84.1	81.3	74.1	65.7	59.9	55.6	53.4	56.4	57.1
70°	70.6	67.7	61.4	54.2	49.2	46.3	46.3	48.4	49.2
72.5°	57.7	55.6	49.9	44.3	40.6	38.5	40.0	41.3	42.1
75°	46.3	44.3	40.0	35.0	31.4	31.4	32.8	34.2	35.0
77.5°	35.7	34.2	30.0	26.4	24.9	24.9	26.4	27.1	27.8
80°	24.9	23.5	21.4	19.2	17.8	19.2	20.7	20.7	21.4
82.5°	16.4	15.7	14.3	12.8	12.8	13.6	14.3	14.9	14.9
85°	8.6	8.6	7.8	7.1	7.8	8.6	8.6	9.3	9.3
87.5°	2.8	2.8	2.8	2.8	3.5	3.5	3.5	3.5	3.5
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)