

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: P581602

Luminaire Tested: **HC610D010-HM60525835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581602
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: HC610D010-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: 1004.7 lumens
Efficiency: N/A
Efficacy: 101.5 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

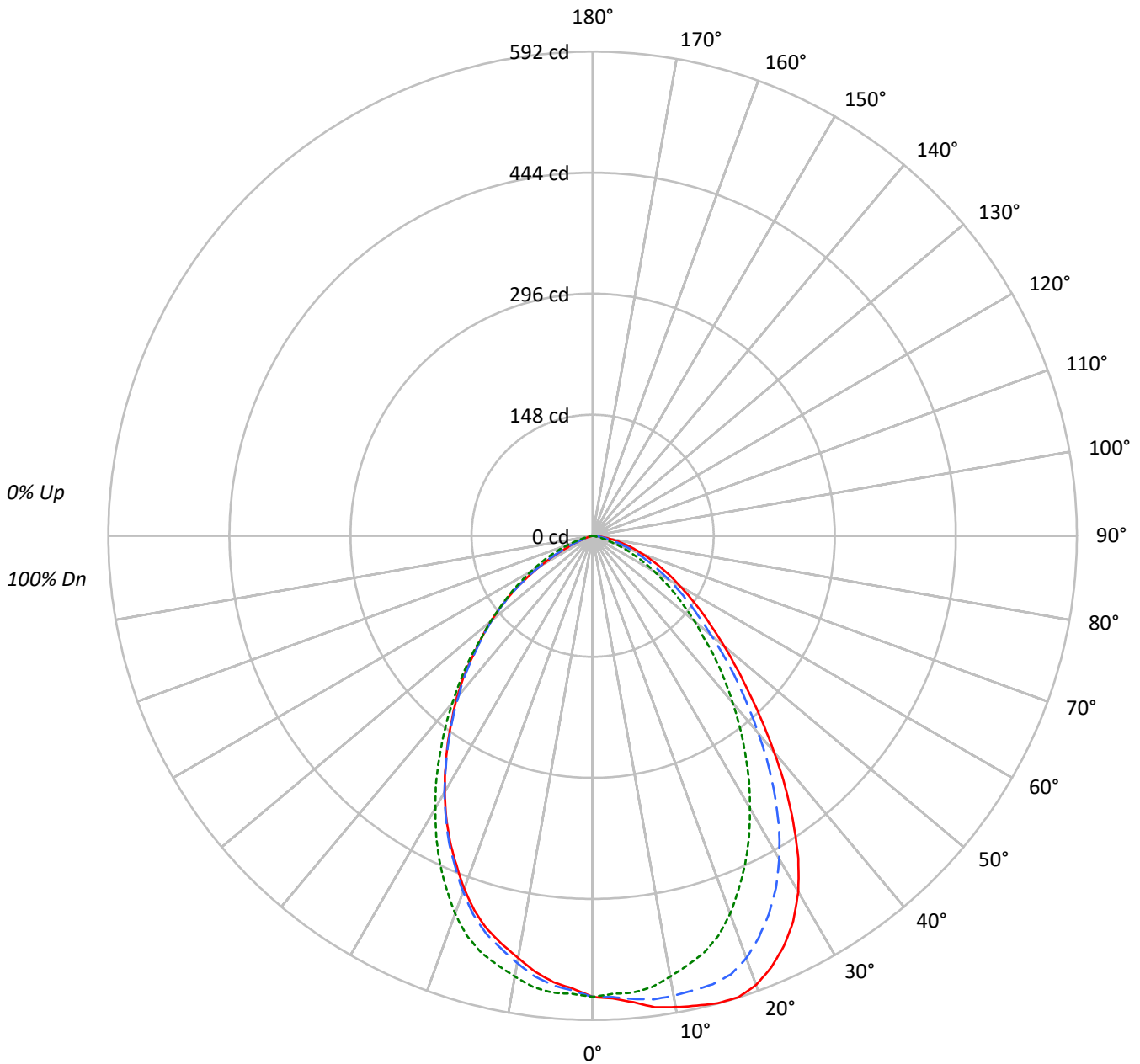
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	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°	30902	30902	30902
5°	31504	30850	30151
10°	32576	30455	29174
15°	33576	29926	28263
20°	34099	28679	26783
25°	33474	26717	24939
30°	31821	24339	22890
35°	28603	21757	20646
40°	24682	19071	18449
45°	20901	16413	15978
50°	17918	13867	13731
55°	15541	11670	11221
60°	13563	9484	7993
65°	11934	7303	4423
70°	10290	4825	2164
75°	8727	2351	847
80°	6756	1010	505
85°	3963	503	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	5.3
10°-20°	150.4	15.0
20°-30°	211.9	21.1
30°-40°	216.5	21.5
40°-50°	174.5	17.4
50°-60°	117.1	11.7
60°-70°	59.2	5.9
70°-80°	18.9	1.9
80°-90°	2.9	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°	415.5	41.4
0°-40°	632.0	62.9
0°-60°	923.6	91.9
0°-90°	1004.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1004.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	564	564	564	564	564	
5°	572	568	561	552	548	55
15°	592	568	527	504	498	167
25°	553	510	442	415	412	253
35°	427	388	325	307	308	266
45°	270	248	212	205	206	210
55°	163	144	122	117	117	146
65°	92	76	56	37	34	92
75°	41	29	11	4	4	44
85°	6	3	1	1	1	9
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°	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7
2.5°	566.1	565.3	564.5	562.9	560.6	558.2	556.6	555.0	554.2
5°	572.5	570.9	568.5	565.3	560.6	555.0	551.8	548.7	547.9
7.5°	581.3	578.0	571.7	564.5	556.6	548.7	543.1	540.0	537.6
10°	585.2	579.7	570.9	559.0	547.1	537.6	530.5	525.7	524.1
12.5°	588.4	582.1	569.3	553.4	537.6	524.9	517.0	513.0	511.4
15°	591.6	585.2	567.7	547.1	527.3	512.2	503.5	499.6	498.0
17.5°	591.6	582.9	562.2	536.0	512.2	494.0	485.3	481.3	480.5
20°	584.5	574.8	549.5	518.6	491.6	471.0	463.1	460.7	459.1
22.5°	570.9	559.8	531.2	496.4	467.1	447.3	438.5	437.0	435.4
25°	553.4	542.3	509.9	472.6	441.7	421.9	414.8	413.1	412.3
27.5°	531.2	519.4	485.3	447.3	414.0	394.8	388.5	388.5	387.7
30°	502.7	489.3	456.0	417.9	384.5	367.1	362.4	362.4	361.6
32.5°	467.9	454.4	424.3	387.7	356.0	337.8	333.8	335.4	334.6
35°	427.4	416.3	388.5	352.8	325.1	308.5	306.9	308.5	308.5
37.5°	386.9	376.6	352.8	321.9	295.8	280.7	280.7	283.1	282.3
40°	344.9	337.0	314.8	287.9	266.5	256.2	254.6	257.0	257.8
42.5°	305.3	299.0	279.9	257.8	238.6	228.3	230.7	232.3	233.1
45°	269.6	263.3	248.1	225.2	211.7	204.6	204.6	206.9	206.1
47.5°	237.8	233.1	218.0	195.8	184.0	180.8	182.4	184.0	184.0
50°	210.1	203.0	188.7	171.3	162.6	158.6	160.2	161.0	161.0
52.5°	184.0	179.2	164.9	149.1	141.2	138.8	138.8	139.6	139.6
55°	162.6	157.0	144.3	128.5	122.1	119.0	116.6	115.8	117.4
57.5°	142.0	137.2	125.3	110.3	103.1	100.0	95.2	93.6	95.2
60°	123.7	119.8	107.9	93.6	86.5	80.0	74.5	71.3	72.9
62.5°	107.9	103.1	91.2	79.2	71.3	64.2	55.5	50.7	53.1
65°	92.0	88.1	76.1	64.2	56.3	47.5	37.2	34.1	34.1
67.5°	77.7	73.7	62.6	52.3	42.8	32.5	23.0	22.2	23.0
70°	64.2	60.2	50.7	40.4	30.1	19.8	13.5	13.5	13.5
72.5°	53.1	48.3	39.6	29.3	19.0	10.3	7.1	7.9	7.9
75°	41.2	37.2	29.3	19.8	11.1	4.8	4.0	4.0	4.0
77.5°	30.9	27.7	20.6	12.7	5.5	1.6	1.6	1.6	1.6
80°	21.4	18.2	13.5	7.9	3.2	1.6	1.6	1.6	1.6
82.5°	12.7	11.1	7.9	4.0	1.6	0.8	0.8	0.8	0.8
85°	6.3	5.5	3.2	1.6	0.8	0.8	0.8	0.8	0.8
87.5°	1.6	1.6	0.8	0.8	0.0	0.8	0.8	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)