

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: P581691

Luminaire Tested: **HC610D010-HM60525940-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581691
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-HM60525940-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 903.5 lumens
Efficiency: N/A
Efficacy: 91.3 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

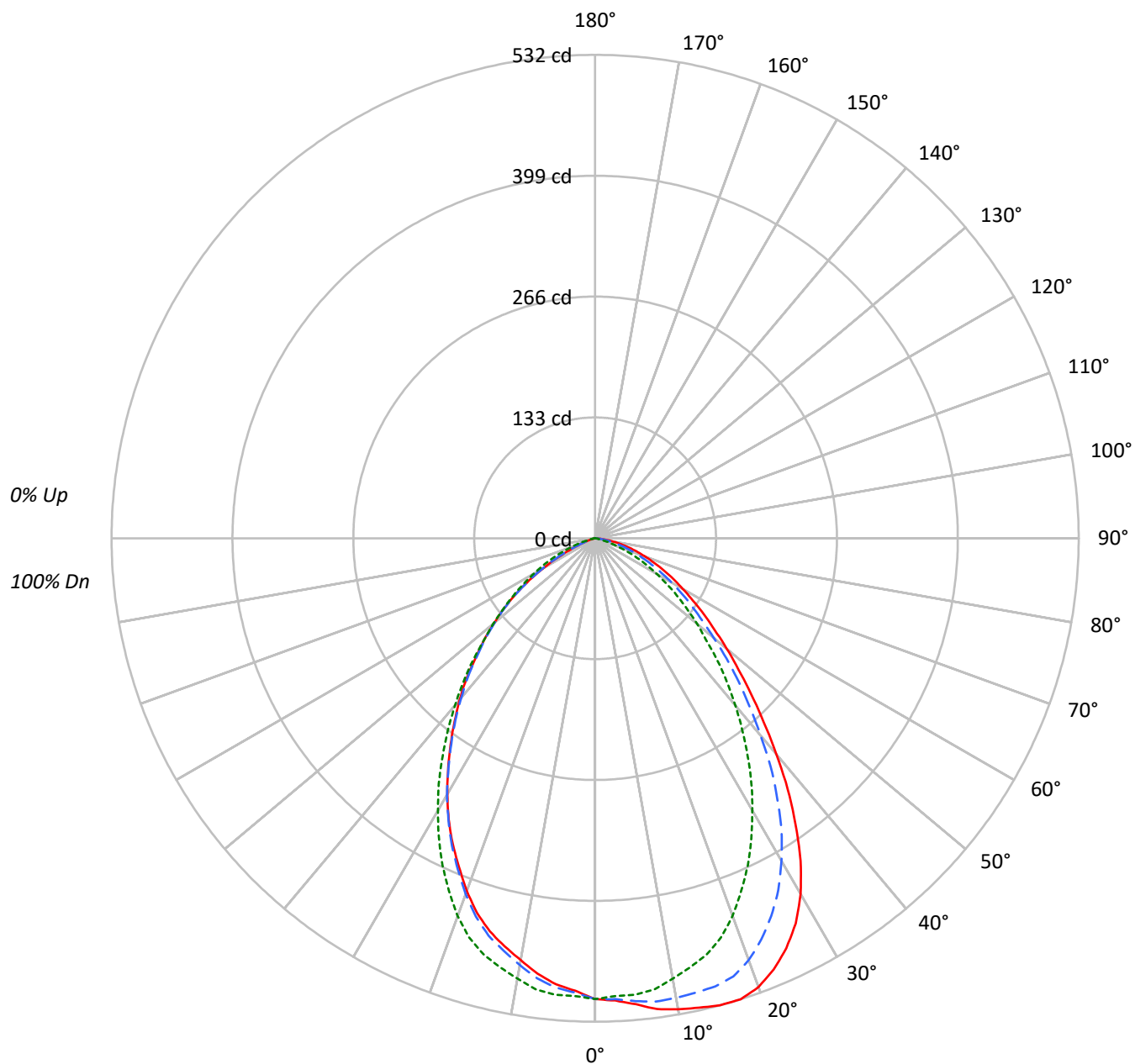
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	27794	27794	27794
5°	28329	27746	27119
10°	29297	27393	26241
15°	30187	26913	25414
20°	30663	25797	24082
25°	30105	24026	22429
30°	28618	21889	20585
35°	25719	19568	18558
40°	22199	17146	16581
45°	18800	14761	14374
50°	16110	12460	12349
55°	13964	10494	10083
60°	12203	8530	7203
65°	10727	6564	3982
70°	9248	4344	1939
75°	7858	2118	741
80°	6061	884	474
85°	3585	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	5.3
10°-20°	135.3	15.0
20°-30°	190.5	21.1
30°-40°	194.7	21.5
40°-50°	156.9	17.4
50°-60°	105.3	11.7
60°-70°	53.3	5.9
70°-80°	17.0	1.9
80°-90°	2.6	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°	373.7	41.4
0°-40°	568.3	62.9
0°-60°	830.6	91.9
0°-90°	903.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	507	507	507	507	507	
5°	515	511	504	496	493	50
15°	532	510	474	453	448	150
25°	498	459	397	373	371	228
35°	384	349	292	276	277	239
45°	242	223	190	184	185	189
55°	146	130	110	105	106	132
65°	83	68	51	34	31	83
75°	37	26	10	4	4	40
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°	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
2.5°	509.2	508.4	507.7	506.3	504.2	502.0	500.6	499.2	498.4
5°	514.8	513.5	511.3	508.4	504.2	499.2	496.3	493.4	492.8
7.5°	522.6	519.8	514.2	507.7	500.6	493.4	488.5	485.6	483.5
10°	526.3	521.3	513.5	502.7	492.1	483.5	477.0	472.7	471.4
12.5°	529.1	523.4	512.0	497.7	483.5	472.0	464.9	461.4	459.9
15°	531.9	526.3	510.5	492.1	474.2	460.6	452.8	449.3	447.8
17.5°	531.9	524.1	505.6	482.0	460.6	444.3	436.4	432.9	432.1
20°	525.6	517.0	494.1	466.4	442.2	423.6	416.5	414.3	412.8
22.5°	513.5	503.4	477.8	446.3	420.0	402.2	394.4	392.9	391.4
25°	497.7	487.8	458.6	425.0	397.2	379.3	373.0	371.5	370.8
27.5°	477.8	467.1	436.4	402.2	372.2	355.1	349.4	349.4	348.7
30°	452.1	440.0	410.0	375.8	345.8	330.2	325.9	325.9	325.2
32.5°	420.8	408.7	381.5	348.7	320.1	303.8	300.2	301.7	300.9
35°	384.3	374.4	349.4	317.3	292.4	277.3	276.0	277.3	277.3
37.5°	348.0	338.7	317.3	289.6	266.0	252.4	252.4	254.6	253.9
40°	310.2	303.0	283.1	258.9	239.6	230.4	228.9	231.0	231.7
42.5°	274.5	268.8	251.8	231.7	214.6	205.3	207.5	209.0	209.6
45°	242.5	236.7	223.2	202.5	190.4	184.0	184.0	186.1	185.4
47.5°	213.9	209.6	196.1	176.1	165.4	162.6	164.0	165.4	165.4
50°	188.9	182.6	169.7	154.1	146.1	142.6	144.0	144.8	144.8
52.5°	165.4	161.2	148.3	134.0	126.9	124.7	124.7	125.5	125.5
55°	146.1	141.2	129.7	115.6	109.8	107.0	104.8	104.1	105.5
57.5°	127.7	123.4	112.6	99.2	92.7	89.9	85.6	84.1	85.6
60°	111.3	107.7	97.0	84.1	77.8	72.0	67.0	64.2	65.7
62.5°	97.0	92.7	82.0	71.3	64.2	57.7	49.9	45.6	47.8
65°	82.7	79.1	68.5	57.7	50.6	42.8	33.5	30.7	30.7
67.5°	69.8	66.3	56.4	47.1	38.5	29.2	20.7	19.9	20.7
70°	57.7	54.2	45.6	36.3	27.1	17.8	12.1	12.1	12.1
72.5°	47.8	43.5	35.7	26.4	17.1	9.3	6.5	7.1	7.1
75°	37.1	33.5	26.4	17.8	10.0	4.3	3.5	3.5	3.5
77.5°	27.8	24.9	18.6	11.4	5.0	1.5	1.5	1.5	1.5
80°	19.2	16.4	12.1	7.1	2.8	1.5	1.5	1.5	1.5
82.5°	11.4	10.0	7.1	3.5	1.5	0.7	0.7	0.7	0.7
85°	5.7	5.0	2.8	1.5	0.7	0.7	0.7	0.7	0.7
87.5°	1.5	1.5	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)