

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: P583311

Luminaire Tested: **HC607D010-HM60525830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583311
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: HC607D010-HM60525830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 800.6 lumens
Efficiency: N/A
Efficacy: 100.1 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

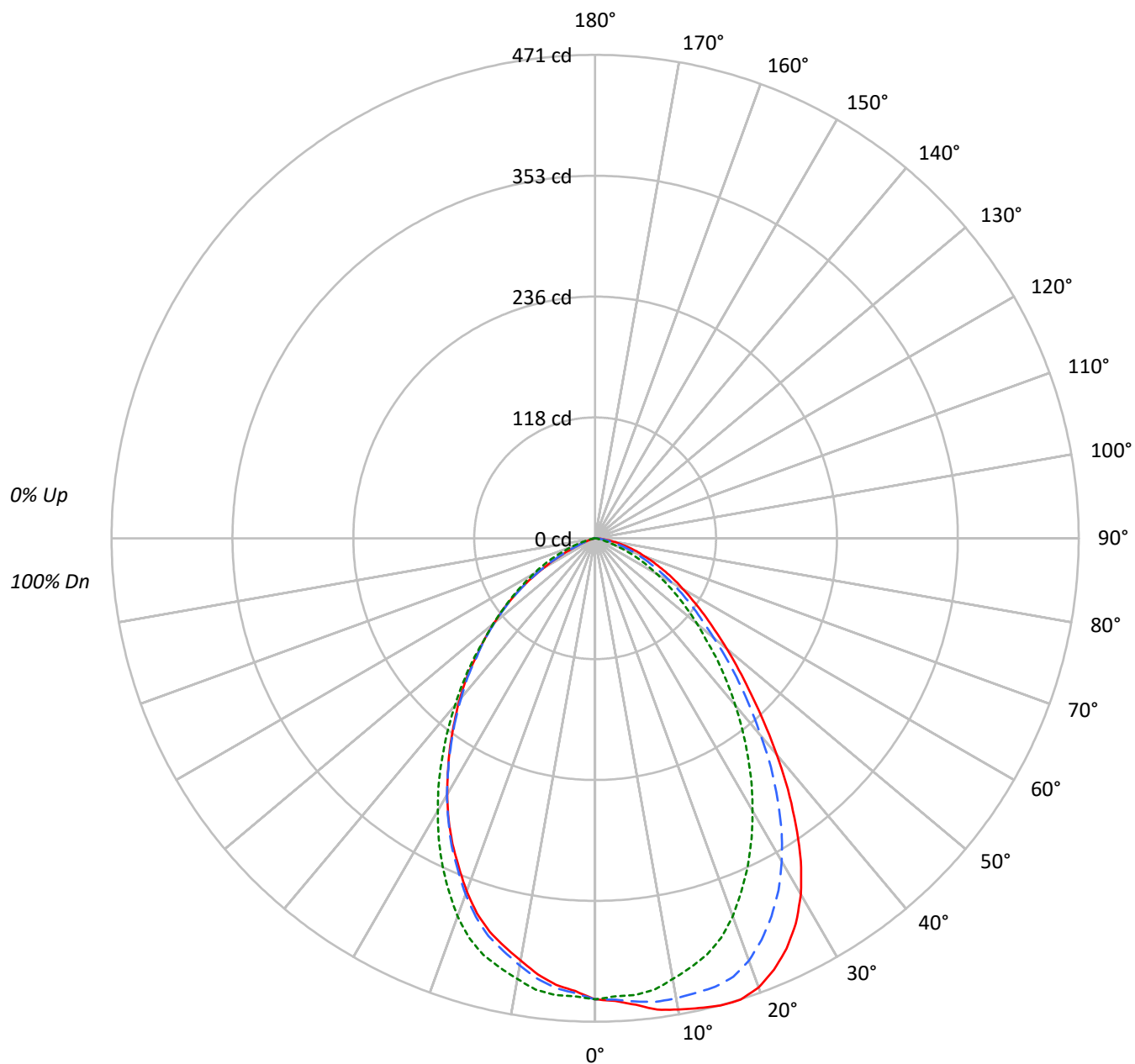
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	24625	24625	24625
5°	25110	24582	24031
10°	25957	24270	23252
15°	26754	23848	22520
20°	27168	22857	21340
25°	26681	21286	19876
30°	25358	19402	18237
35°	22794	17340	16456
40°	19673	15193	14699
45°	16653	13079	12738
50°	14285	11044	10942
55°	12377	9300	8936
60°	10811	7554	6370
65°	9508	5824	3528
70°	8207	3847	1731
75°	6969	1864	678
80°	5398	789	379
85°	3208	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	5.3
10°-20°	119.9	15.0
20°-30°	168.8	21.1
30°-40°	172.5	21.5
40°-50°	139.1	17.4
50°-60°	93.3	11.7
60°-70°	47.2	5.9
70°-80°	15.1	1.9
80°-90°	2.3	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°	331.1	41.4
0°-40°	503.6	62.9
0°-60°	736.0	91.9
0°-90°	800.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	449	449	449	449	449	
5°	456	453	447	440	437	44
15°	471	452	420	401	397	133
25°	441	406	352	330	329	202
35°	341	310	259	244	246	212
45°	215	198	169	163	164	167
55°	130	115	97	93	94	117
65°	73	61	45	30	27	73
75°	33	23	9	3	3	35
85°	5	2	1	1	1	7
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°	449.2	449.2	449.2	449.2	449.2	449.2	449.2	449.2	449.2
2.5°	451.2	450.6	449.9	448.7	446.7	444.8	443.6	442.3	441.6
5°	456.3	455.0	453.1	450.6	446.7	442.3	439.8	437.2	436.7
7.5°	463.2	460.7	455.6	449.9	443.6	437.2	432.8	430.3	428.4
10°	466.3	461.9	455.0	445.5	436.0	428.4	422.7	419.0	417.7
12.5°	468.8	463.9	453.7	441.1	428.4	418.3	412.0	408.8	407.5
15°	471.4	466.3	452.4	436.0	420.2	408.2	401.3	398.1	396.8
17.5°	471.4	464.4	448.0	427.1	408.2	393.7	386.7	383.5	383.0
20°	465.7	458.1	437.9	413.2	391.8	375.4	369.0	367.1	365.8
22.5°	455.0	446.1	423.4	395.5	372.2	356.4	349.4	348.2	346.9
25°	441.1	432.2	406.3	376.6	351.9	336.2	330.5	329.2	328.6
27.5°	423.4	413.9	386.7	356.4	329.8	314.6	309.6	309.6	309.0
30°	400.6	389.9	363.4	333.0	306.5	292.5	288.8	288.8	288.1
32.5°	372.9	362.1	338.1	309.0	283.7	269.2	266.0	267.3	266.7
35°	340.6	331.7	309.6	281.2	259.1	245.9	244.5	245.9	245.9
37.5°	308.4	300.1	281.2	256.5	235.7	223.7	223.7	225.6	224.9
40°	274.9	268.5	250.8	229.4	212.3	204.1	202.8	204.7	205.4
42.5°	243.3	238.3	223.1	205.4	190.2	182.0	183.9	185.1	185.8
45°	214.8	209.8	197.8	179.5	168.7	163.0	163.0	165.0	164.3
47.5°	189.6	185.8	173.8	156.1	146.6	144.1	145.4	146.6	146.6
50°	167.5	161.8	150.3	136.5	129.5	126.3	127.7	128.3	128.3
52.5°	146.6	142.8	131.4	118.9	112.5	110.6	110.6	111.3	111.3
55°	129.5	125.1	115.0	102.4	97.3	94.8	92.9	92.2	93.5
57.5°	113.1	109.3	99.8	87.8	82.1	79.6	75.8	74.6	75.8
60°	98.6	95.4	85.9	74.6	68.9	63.8	59.4	56.9	58.1
62.5°	85.9	82.1	72.6	63.2	56.9	51.2	44.2	40.4	42.4
65°	73.3	70.1	60.6	51.2	44.9	38.0	29.7	27.2	27.2
67.5°	62.0	58.8	50.0	41.7	34.1	25.9	18.4	17.7	18.4
70°	51.2	48.0	40.4	32.2	24.0	15.7	10.8	10.8	10.8
72.5°	42.4	38.5	31.6	23.3	15.2	8.3	5.7	6.3	6.3
75°	32.9	29.7	23.3	15.7	8.8	3.7	3.2	3.2	3.2
77.5°	24.7	22.1	16.4	10.1	4.4	1.2	1.2	1.2	1.2
80°	17.1	14.5	10.8	6.3	2.5	1.2	1.2	1.2	1.2
82.5°	10.1	8.8	6.3	3.2	1.2	0.7	0.7	0.7	0.7
85°	5.1	4.4	2.5	1.2	0.7	0.7	0.7	0.7	0.7
87.5°	1.2	1.2	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)