

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: P583395

Luminaire Tested: **HC607D010-HM60525935-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583395
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: HC607D010-HM60525935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 852.6 lumens
Efficiency: N/A
Efficacy: 106.6 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

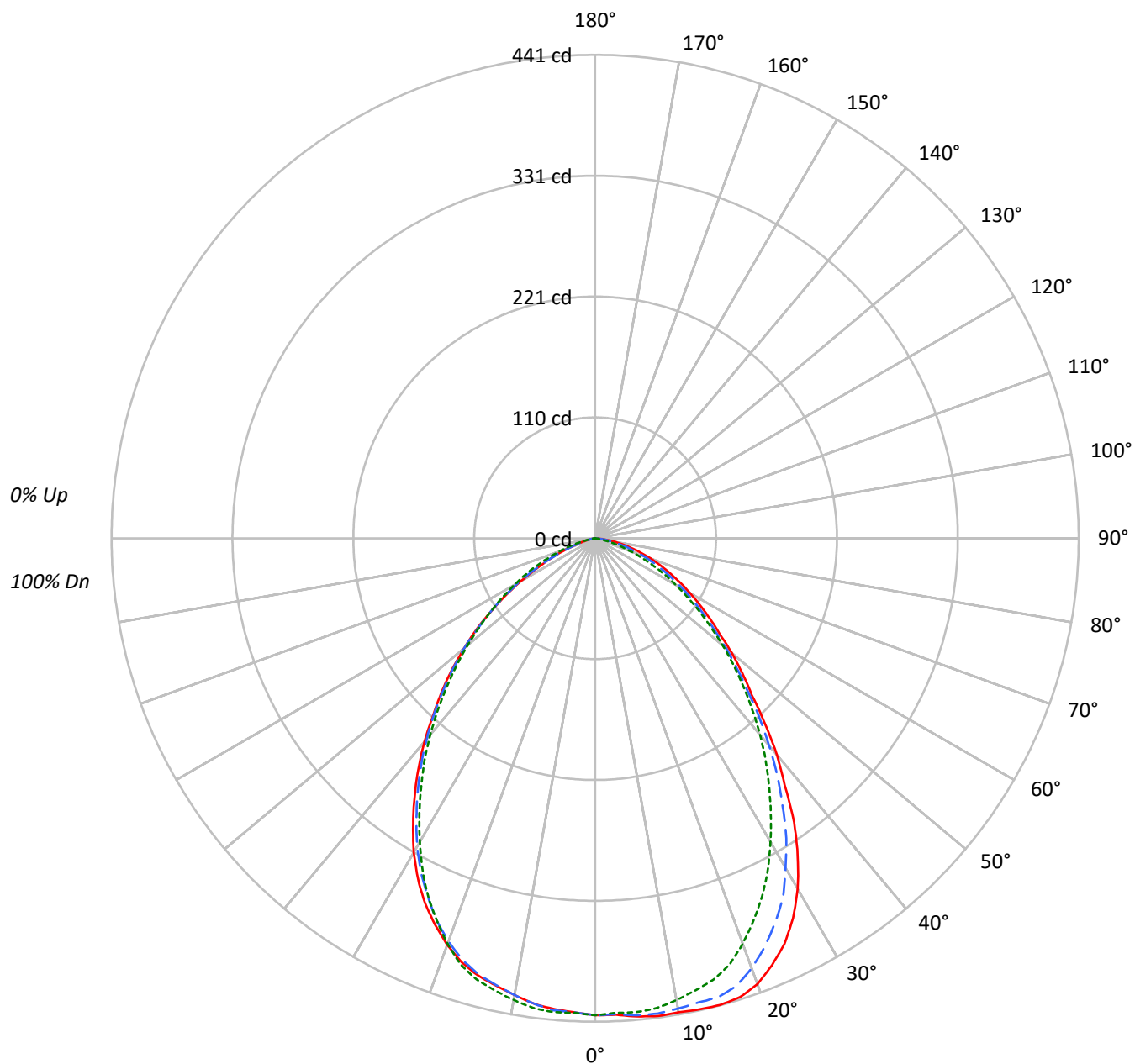
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	23852	23852	23852
5°	24097	23877	23723
10°	24437	23808	23552
15°	25011	23655	23434
20°	25249	22956	23020
25°	24697	21800	22211
30°	23390	20244	20934
35°	21174	18511	19200
40°	18449	16724	17340
45°	15653	14808	15335
50°	13859	12938	13279
55°	12205	11068	11010
60°	10942	9319	8574
65°	9755	7472	6149
70°	8591	5402	3831
75°	7244	3262	2182
80°	5588	1421	884
85°	3208	377	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	4.8
10°-20°	118.7	13.9
20°-30°	171.6	20.1
30°-40°	180.5	21.2
40°-50°	151.8	17.8
50°-60°	106.5	12.5
60°-70°	58.6	6.9
70°-80°	20.8	2.4
80°-90°	2.7	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°	331.6	38.9
0°-40°	512.1	60.1
0°-60°	770.4	90.4
0°-90°	852.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	435	435	435	435	435	
5°	438	437	434	432	431	42
15°	441	433	417	412	413	124
25°	408	388	360	361	367	187
35°	316	298	277	282	287	196
45°	202	196	191	196	198	158
55°	128	121	116	116	115	115
65°	75	67	58	47	47	75
75°	34	27	15	10	10	37
85°	5	3	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°	435.1	435.1	435.1	435.1	435.1	435.1	435.1	435.1	435.1
2.5°	435.1	435.1	434.5	434.5	433.4	433.4	432.8	432.8	432.8
5°	437.9	437.9	436.8	435.1	433.9	432.2	432.2	431.7	431.1
7.5°	439.6	439.0	437.3	435.1	432.2	429.4	428.3	428.8	428.3
10°	439.0	437.9	435.6	431.1	427.7	423.6	423.1	422.5	423.1
12.5°	440.2	438.5	433.9	428.3	422.5	418.0	417.4	417.4	418.0
15°	440.7	439.0	433.4	424.8	416.8	412.3	411.7	412.3	412.9
17.5°	439.0	436.8	428.3	416.8	407.8	403.1	403.1	404.3	405.4
20°	432.8	429.4	417.4	403.7	393.5	390.0	391.2	393.5	394.6
22.5°	421.4	417.4	403.7	388.3	377.5	374.7	377.5	380.3	381.5
25°	408.3	403.7	387.7	371.7	360.4	357.0	361.0	365.5	367.2
27.5°	390.7	385.4	370.6	352.4	341.0	339.3	343.9	349.0	350.1
30°	369.5	363.8	347.3	330.2	319.8	319.3	324.5	329.0	330.7
32.5°	343.9	338.8	324.5	307.4	298.2	298.2	303.3	307.4	309.1
35°	316.4	310.8	298.2	283.9	276.6	277.1	282.2	285.1	286.9
37.5°	283.9	282.2	272.6	260.6	255.5	256.6	260.6	262.9	264.6
40°	257.8	253.2	246.9	237.3	233.7	235.0	238.9	241.2	242.3
42.5°	229.2	226.4	221.3	214.4	212.1	213.8	217.3	219.0	218.4
45°	201.9	201.3	196.1	192.2	191.0	193.3	195.6	197.3	197.8
47.5°	181.8	179.6	175.0	172.2	171.1	173.3	175.6	176.7	176.7
50°	162.5	160.2	155.7	152.8	151.7	154.0	155.7	156.8	155.7
52.5°	143.1	140.8	136.9	133.5	132.9	134.0	134.6	135.2	136.3
55°	127.7	125.4	120.9	116.9	115.8	116.4	115.8	115.8	115.2
57.5°	113.0	110.6	106.0	101.5	99.8	99.3	97.6	97.0	96.4
60°	99.8	97.0	92.3	87.2	85.0	82.7	79.9	78.2	78.2
62.5°	87.2	84.4	79.3	74.7	71.3	67.3	62.8	60.4	60.4
65°	75.2	73.0	67.3	62.2	57.6	52.5	47.4	46.2	47.4
67.5°	63.9	61.6	55.9	50.8	45.1	38.7	34.2	34.2	35.3
70°	53.6	51.3	46.2	39.9	33.7	27.4	23.9	23.9	23.9
72.5°	44.0	41.6	35.9	30.3	23.9	17.7	16.0	16.5	16.0
75°	34.2	32.5	27.4	21.1	15.4	10.9	10.3	9.7	10.3
77.5°	25.6	23.9	19.4	13.7	8.5	6.2	5.7	5.7	5.7
80°	17.7	16.0	12.6	7.9	4.5	2.8	2.8	2.8	2.8
82.5°	10.9	9.2	6.8	4.0	1.7	1.7	1.7	1.7	1.7
85°	5.1	4.0	2.8	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	1.1	0.6	0.6	0.0	0.6	0.6	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)