

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: P583323

Luminaire Tested: **HC607D010-HM60525835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583323
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-HM60525835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 959.9 lumens
Efficiency: N/A
Efficacy: 120.0 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

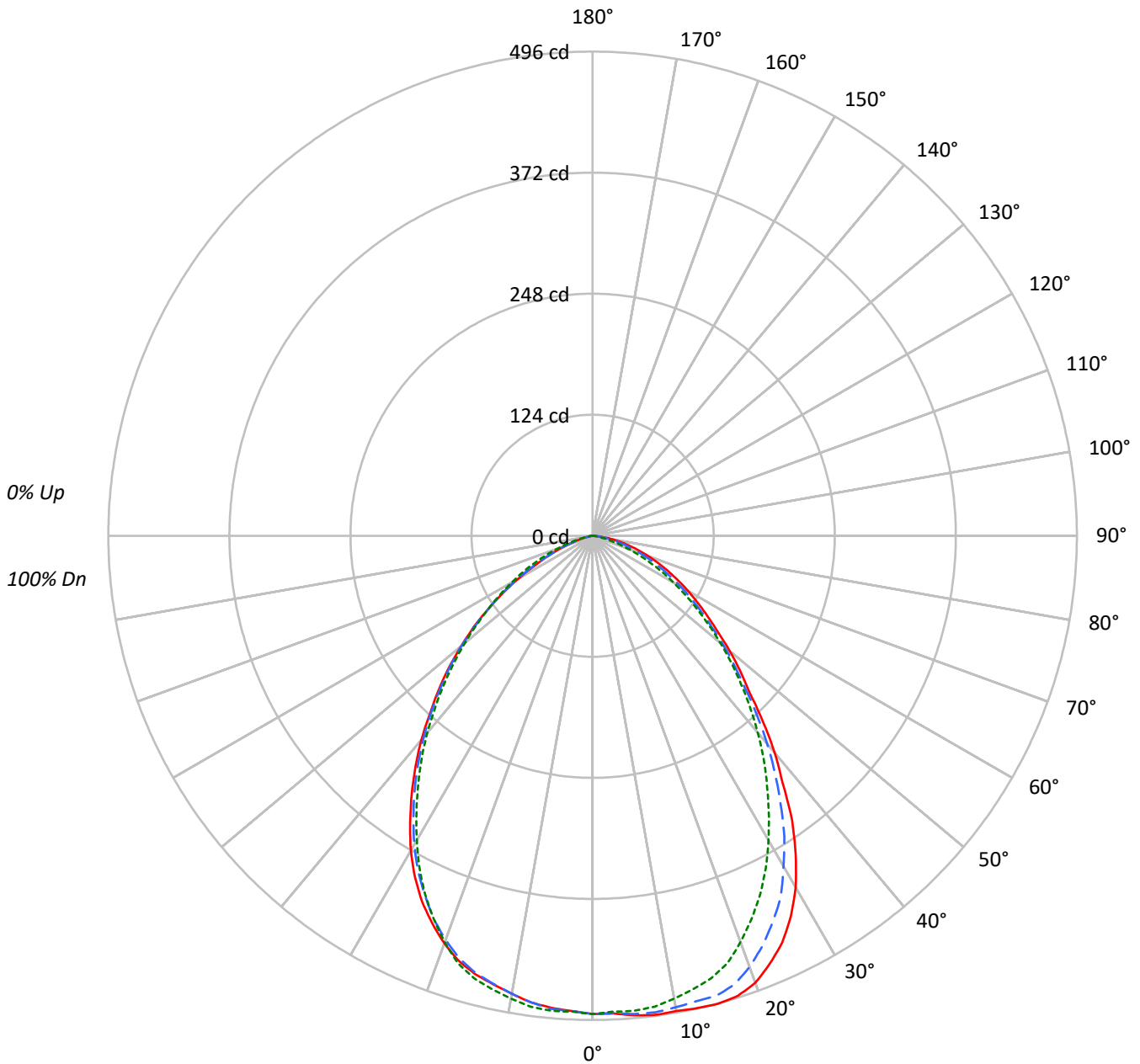
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26856	26856	26856
5°	27135	26882	26711
10°	27516	26803	26519
15°	28167	26635	26385
20°	28428	25844	25914
25°	27806	24540	25005
30°	26333	22801	23573
35°	23845	20833	21609
40°	20767	18835	19522
45°	17622	16668	17265
50°	15607	14558	14950
55°	13744	12454	12396
60°	12324	10482	9637
65°	10987	8406	6914
70°	9681	6059	4328
75°	8155	3664	2457
80°	6282	1610	1010
85°	3648	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	4.8
10°-20°	133.6	13.9
20°-30°	193.2	20.1
30°-40°	203.3	21.2
40°-50°	170.9	17.8
50°-60°	119.9	12.5
60°-70°	66.0	6.9
70°-80°	23.4	2.4
80°-90°	3.1	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°	373.3	38.9
0°-40°	576.6	60.1
0°-60°	867.4	90.4
0°-90°	959.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	490	490	490	490	490	
5°	493	492	488	487	485	47
15°	496	488	469	464	465	140
25°	460	436	406	406	413	210
35°	356	336	311	318	323	221
45°	227	221	215	220	223	178
55°	144	136	130	130	130	129
65°	85	76	65	53	53	84
75°	38	31	17	12	12	41
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°	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9
2.5°	489.9	489.9	489.2	489.2	488.0	488.0	487.3	487.3	487.3
5°	493.1	493.1	491.8	489.9	488.5	486.6	486.6	486.1	485.4
7.5°	495.0	494.3	492.4	489.9	486.6	483.5	482.2	482.8	482.2
10°	494.3	493.1	490.5	485.4	481.5	477.0	476.4	475.7	476.4
12.5°	495.7	493.8	488.5	482.2	475.7	470.6	470.0	470.0	470.6
15°	496.3	494.3	488.0	478.4	469.3	464.2	463.5	464.2	464.9
17.5°	494.3	491.8	482.2	469.3	459.1	453.9	453.9	455.2	456.5
20°	487.3	483.5	470.0	454.6	443.0	439.2	440.4	443.0	444.2
22.5°	474.5	470.0	454.6	437.2	425.0	421.8	425.0	428.3	429.5
25°	459.7	454.6	436.5	418.6	405.7	401.9	406.4	411.5	413.4
27.5°	439.8	434.1	417.3	396.8	384.0	382.0	387.1	392.9	394.2
30°	416.0	409.6	391.0	371.7	360.2	359.5	365.3	370.5	372.4
32.5°	387.1	381.4	365.3	346.0	335.8	335.8	341.6	346.0	347.9
35°	356.3	349.9	335.8	319.7	311.3	312.0	317.8	321.0	322.9
37.5°	319.7	317.8	306.9	293.4	287.7	288.9	293.4	295.9	297.9
40°	290.2	285.1	278.0	267.0	263.2	264.6	269.0	271.6	272.8
42.5°	258.1	254.9	249.1	241.4	238.8	240.8	244.6	246.5	245.9
45°	227.3	226.6	220.8	216.4	215.0	217.6	220.3	222.2	222.7
47.5°	204.8	202.2	197.1	193.9	192.6	195.2	197.7	199.1	199.1
50°	183.0	180.4	175.3	172.1	170.7	173.3	175.3	176.5	175.3
52.5°	161.1	158.6	154.1	150.2	149.6	150.9	151.5	152.2	153.4
55°	143.8	141.3	136.1	131.7	130.3	131.0	130.3	130.3	129.7
57.5°	127.1	124.5	119.4	114.3	112.4	111.7	109.8	109.1	108.5
60°	112.4	109.1	104.0	98.2	95.6	93.1	89.8	87.9	87.9
62.5°	98.2	95.1	89.3	84.1	80.2	75.8	70.6	68.1	68.1
65°	84.7	82.1	75.8	70.0	64.8	59.0	53.3	52.0	53.3
67.5°	71.9	69.3	62.9	57.1	50.8	43.6	38.5	38.5	39.8
70°	60.4	57.8	52.0	45.0	37.8	30.8	27.0	27.0	27.0
72.5°	49.4	46.9	40.4	34.0	27.0	19.9	18.0	18.6	18.0
75°	38.5	36.6	30.8	23.8	17.3	12.2	11.6	10.9	11.6
77.5°	28.9	27.0	21.9	15.4	9.6	7.0	6.5	6.5	6.5
80°	19.9	18.0	14.2	9.0	5.1	3.2	3.2	3.2	3.2
82.5°	12.2	10.3	7.7	4.5	1.9	1.9	1.9	1.9	1.9
85°	5.8	4.5	3.2	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)