

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: P583305

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583305
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-HM60525830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 944.7 lumens
Efficiency: N/A
Efficacy: 118.1 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

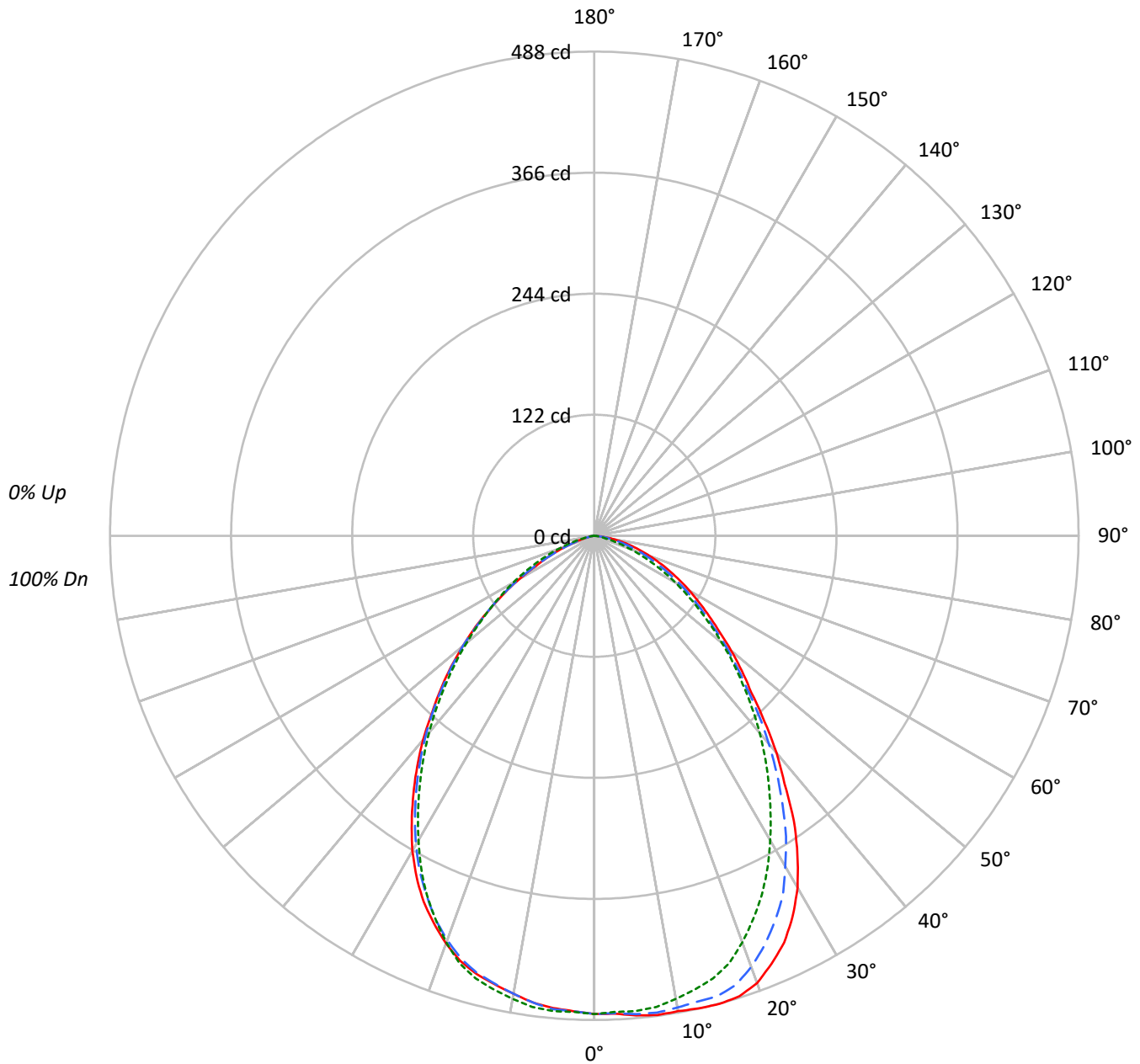
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	44			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	38	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26429	26429	26429
5°	26706	26458	26288
10°	27081	26380	26096
15°	27719	26215	25965
20°	27979	25436	25506
25°	27364	24159	24618
30°	25922	22440	23200
35°	23470	20512	21268
40°	20438	18542	19215
45°	17343	16405	16994
50°	15351	14328	14720
55°	13524	12262	12205
60°	12126	10328	9495
65°	10818	8276	6810
70°	9521	5979	4248
75°	8049	3622	2393
80°	6188	1610	1010
85°	3585	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	4.8
10°-20°	131.5	13.9
20°-30°	190.1	20.1
30°-40°	200.1	21.2
40°-50°	168.2	17.8
50°-60°	118.0	12.5
60°-70°	64.9	6.9
70°-80°	23.1	2.4
80°-90°	3.0	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°	367.4	38.9
0°-40°	567.5	60.1
0°-60°	853.7	90.4
0°-90°	944.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	944.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	482	482	482	482	482	
5°	485	484	481	479	478	46
15°	488	480	462	456	458	138
25°	452	430	399	400	407	207
35°	351	330	306	313	318	217
45°	224	217	212	217	219	175
55°	142	134	128	128	128	127
65°	83	75	64	52	52	83
75°	38	30	17	11	11	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°	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1
2.5°	482.1	482.1	481.5	481.5	480.3	480.3	479.6	479.6	479.6
5°	485.3	485.3	484.0	482.1	480.8	478.9	478.9	478.4	477.7
7.5°	487.2	486.5	484.7	482.1	478.9	475.7	474.5	475.2	474.5
10°	486.5	485.3	482.8	477.7	473.9	469.5	468.8	468.3	468.8
12.5°	487.8	485.9	480.8	474.5	468.3	463.2	462.5	462.5	463.2
15°	488.4	486.5	480.3	470.8	461.9	456.8	456.3	456.8	457.5
17.5°	486.5	484.0	474.5	461.9	451.8	446.7	446.7	448.0	449.2
20°	479.6	475.7	462.5	447.4	436.0	432.2	433.5	436.0	437.2
22.5°	466.9	462.5	447.4	430.3	418.3	415.1	418.3	421.5	422.7
25°	452.4	447.4	429.6	412.0	399.4	395.5	399.9	405.0	407.0
27.5°	432.8	427.1	410.7	390.5	377.9	375.9	381.0	386.7	387.9
30°	409.5	403.1	384.8	365.8	354.5	353.8	359.5	364.6	366.5
32.5°	381.0	375.4	359.5	340.6	330.5	330.5	336.2	340.6	342.5
35°	350.7	344.3	330.5	314.6	306.5	307.0	312.8	315.9	317.8
37.5°	314.6	312.8	302.1	288.8	283.0	284.4	288.8	291.3	293.2
40°	285.6	280.5	273.6	262.9	259.1	260.4	264.8	267.3	268.5
42.5°	254.0	250.8	245.2	237.6	235.1	236.9	240.8	242.7	242.0
45°	223.7	223.1	217.3	212.9	211.6	214.3	216.7	218.7	219.2
47.5°	201.6	199.1	194.0	190.8	189.6	192.0	194.6	195.9	195.9
50°	180.0	177.5	172.6	169.4	168.0	170.6	172.6	173.8	172.6
52.5°	158.6	156.1	151.6	147.9	147.2	148.5	149.1	149.8	151.0
55°	141.5	139.0	133.9	129.5	128.3	128.9	128.3	128.3	127.7
57.5°	125.1	122.6	117.5	112.5	110.6	109.9	108.1	107.4	106.8
60°	110.6	107.4	102.3	96.6	94.2	91.7	88.5	86.6	86.6
62.5°	96.6	93.5	87.8	82.8	79.0	74.6	69.5	67.0	67.0
65°	83.4	80.9	74.6	68.9	63.8	58.1	52.5	51.2	52.5
67.5°	70.8	68.2	62.0	56.2	50.0	42.9	38.0	38.0	39.2
70°	59.4	56.9	51.2	44.2	37.3	30.4	26.5	26.5	26.5
72.5°	48.6	46.1	39.8	33.5	26.5	19.6	17.7	18.4	17.7
75°	38.0	36.0	30.4	23.3	17.1	12.0	11.3	10.8	11.3
77.5°	28.4	26.5	21.5	15.2	9.5	6.9	6.3	6.3	6.3
80°	19.6	17.7	13.9	8.8	5.1	3.2	3.2	3.2	3.2
82.5°	12.0	10.1	7.6	4.4	1.9	1.9	1.9	1.9	1.9
85°	5.7	4.4	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)