

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: P581553

Luminaire Tested: **HC610D010-HM60525827-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525827-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1002.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

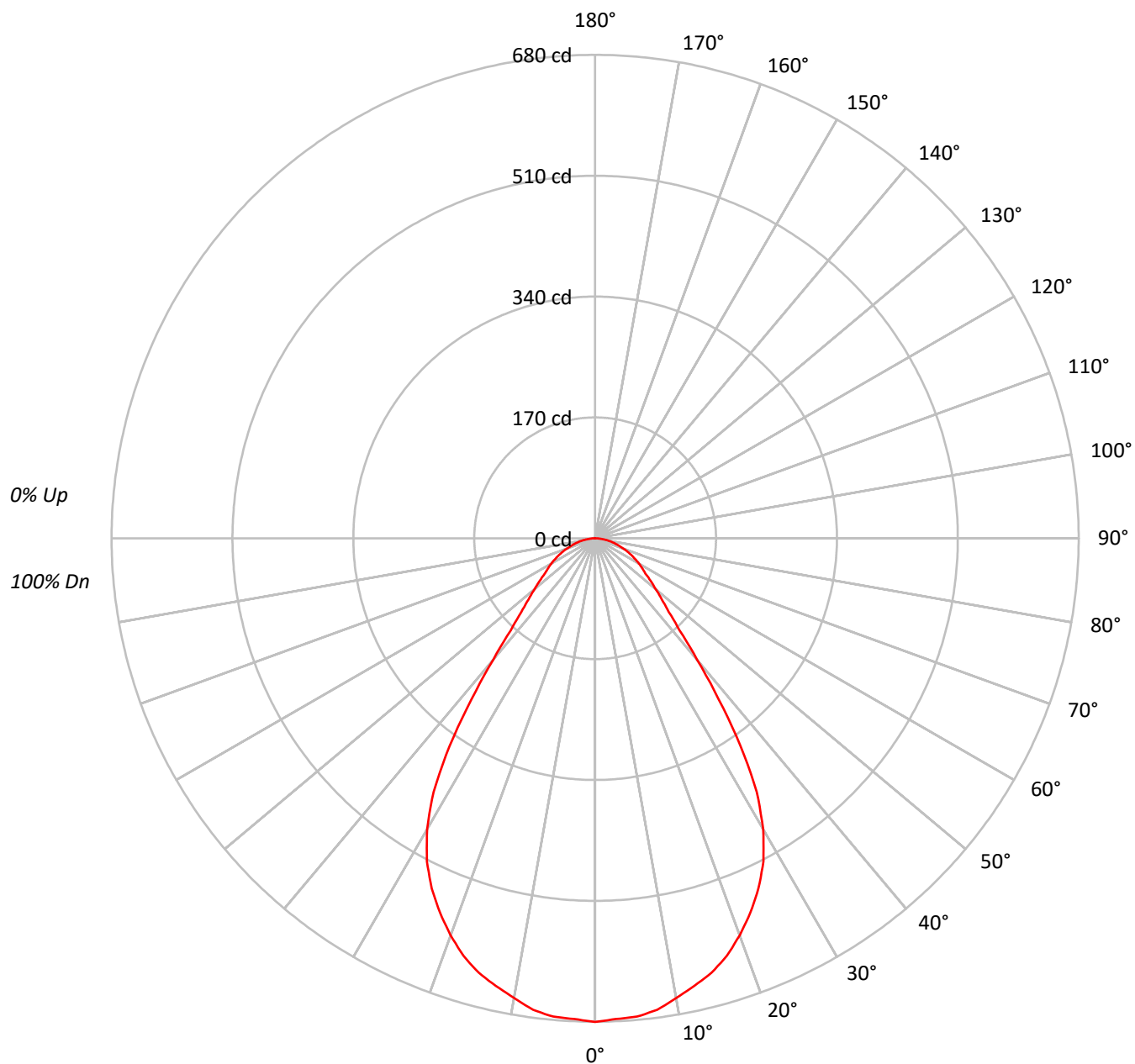
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	97	88	82	76		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	73	68		88	79	73	67		77	71	67		75	70	66		73	68	65
5	84	74	66	61		82	73	66	61		71	65	60		69	64	59		67	63	59
6	79	68	61	55		77	67	60	55		65	59	55		64	58	54		62	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	50		58	53	49
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	43		65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37300
5°	37172
10°	36550
15°	35903
20°	34665
25°	32869
30°	29897
35°	23885
40°	15937
45°	11366
50°	9467
55°	8258
60°	7795
65°	7342
70°	6748
75°	6312
80°	5714
85°	4969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	6.4
10°-20°	177.6	17.7
20°-30°	248.2	24.8
30°-40°	218.7	21.8
40°-50°	118.2	11.8
50°-60°	79.0	7.9
60°-70°	56.0	5.6
70°-80°	31.5	3.1
80°-90°	9.1	0.9
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°	489.7	48.9
0°-40°	708.4	70.7
0°-60°	905.5	90.4
0°-90°	1002.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1002.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	680	
5°	676	64
15°	633	178
25°	543	248
35°	357	219
45°	147	118
55°	86	79
65°	57	56
75°	30	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	680.4
2.5°	676.8
5°	675.5
7.5°	668.9
10°	656.6
12.5°	644.9
15°	632.6
17.5°	615.9
20°	594.2
22.5°	570.2
25°	543.4
27.5°	512.2
30°	472.3
32.5°	422.9
35°	356.9
37.5°	285.2
40°	222.7
42.5°	175.6
45°	146.6
47.5°	127.0
50°	111.0
52.5°	97.9
55°	86.4
57.5°	78.3
60°	71.1
62.5°	63.8
65°	56.6
67.5°	49.4
70°	42.1
72.5°	35.5
75°	29.8
77.5°	23.9
80°	18.1
82.5°	13.0
85°	7.9
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)