

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: P581582

Luminaire Tested: **HC610D010-HM60525830-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525830-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 1227.7 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

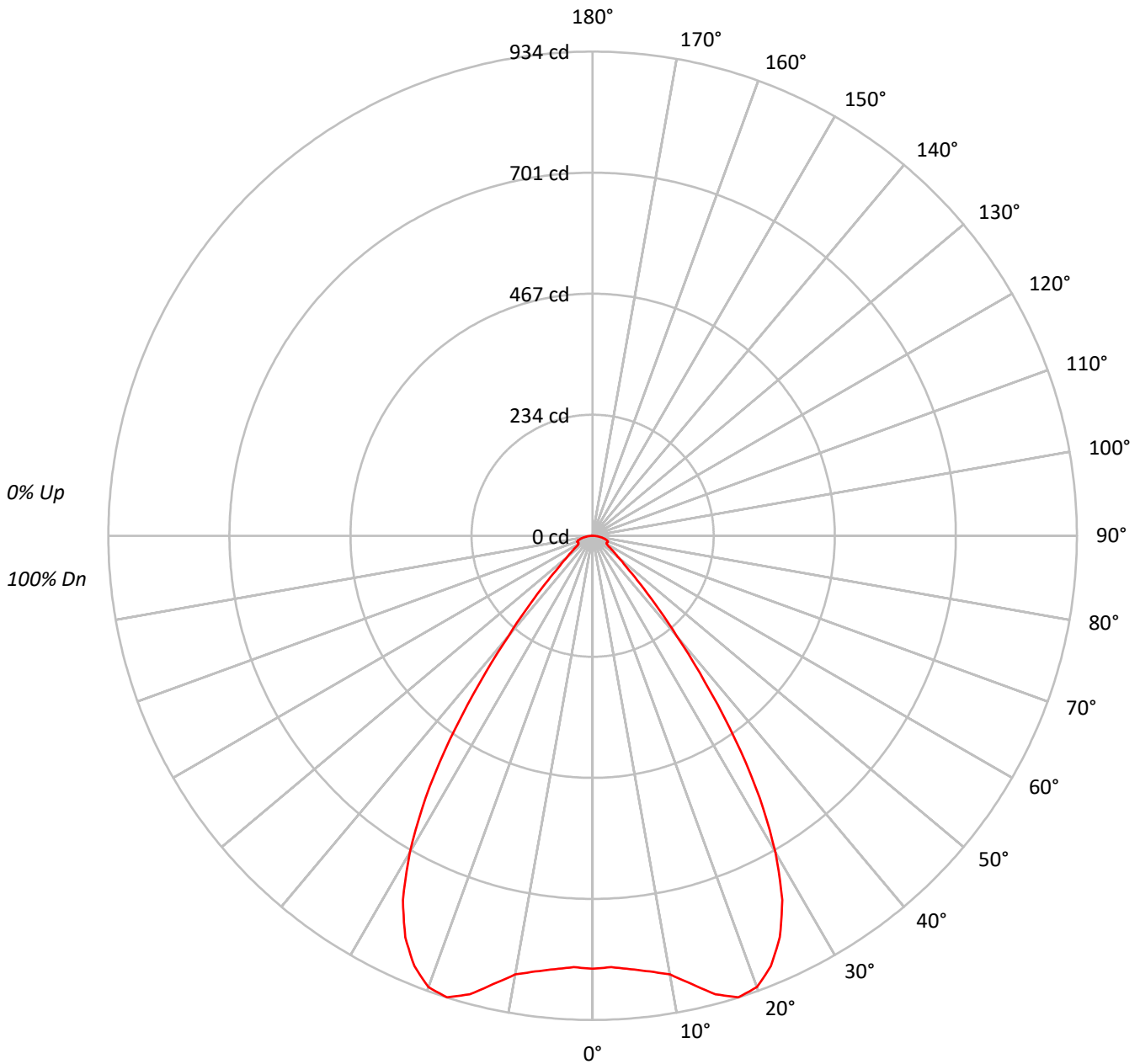
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45786
5°	46181
10°	47839
15°	51964
20°	54051
25°	51699
30°	44621
35°	32130
40°	18098
45°	9381
50°	5586
55°	4024
60°	3421
65°	3956
70°	5001
75°	5295
80°	5177
85°	4906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	6.6
10°-20°	258.2	21.0
20°-30°	386.0	31.4
30°-40°	295.1	24.0
40°-50°	103.1	8.4
50°-60°	39.2	3.2
60°-70°	30.8	2.5
70°-80°	26.1	2.1
80°-90°	8.4	0.7
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°	725.0	59.1
0°-40°	1020.0	83.1
0°-60°	1162.3	94.7
0°-90°	1227.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1227.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	835	
5°	839	81
15°	916	258
25°	855	386
35°	480	295
45°	121	103
55°	42	39
65°	30	31
75°	25	26
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	835.2
2.5°	832.8
5°	839.2
7.5°	847.6
10°	859.4
12.5°	885.9
15°	915.6
17.5°	933.6
20°	926.5
22.5°	898.5
25°	854.7
27.5°	792.3
30°	704.9
32.5°	600.3
35°	480.1
37.5°	355.9
40°	252.9
42.5°	177.2
45°	121.0
47.5°	85.1
50°	65.5
52.5°	51.5
55°	42.1
57.5°	34.3
60°	31.2
62.5°	30.5
65°	30.5
67.5°	32.0
70°	31.2
72.5°	28.9
75°	25.0
77.5°	21.1
80°	16.4
82.5°	11.7
85°	7.8
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)