

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: P581593

Luminaire Tested: **HC610D010-HM60525835-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525835-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1079.1 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

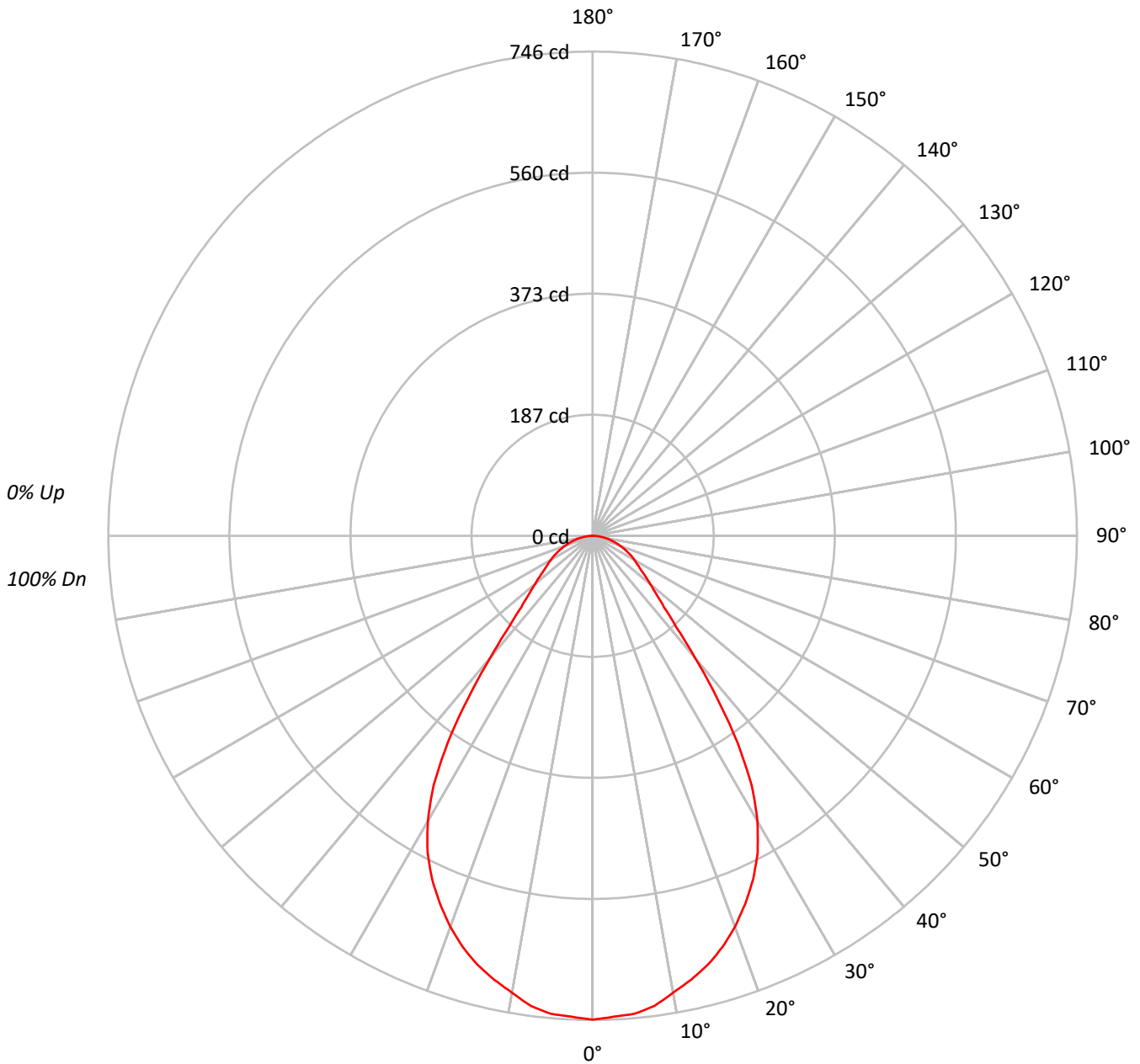
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40874
5°	40683
10°	39784
15°	38848
20°	37389
25°	35361
30°	32138
35°	26013
40°	17540
45°	12048
50°	9876
55°	8640
60°	8179
65°	7718
70°	7245
75°	6884
80°	6251
85°	5472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	6.5
10°-20°	192.2	17.8
20°-30°	267.1	24.7
30°-40°	237.8	22.0
40°-50°	126.2	11.7
50°-60°	82.5	7.6
60°-70°	59.2	5.5
70°-80°	34.3	3.2
80°-90°	10.0	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°	529.1	49.0
0°-40°	766.9	71.1
0°-60°	975.7	90.4
0°-90°	1079.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	746	
5°	739	70
15°	684	192
25°	585	267
35°	389	238
45°	155	126
55°	90	83
65°	60	59
75°	32	34
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	745.6
2.5°	741.7
5°	739.3
7.5°	730.6
10°	714.7
12.5°	700.5
15°	684.5
17.5°	664.7
20°	640.9
22.5°	614.0
25°	584.6
27.5°	550.5
30°	507.7
32.5°	456.1
35°	388.7
37.5°	314.1
40°	245.1
42.5°	190.4
45°	155.4
47.5°	132.4
50°	115.8
52.5°	102.3
55°	90.4
57.5°	81.7
60°	74.6
62.5°	67.5
65°	59.5
67.5°	52.3
70°	45.2
72.5°	38.8
75°	32.5
77.5°	26.1
80°	19.8
82.5°	14.3
85°	8.7
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)