

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: P581671

Luminaire Tested: **HC610D010-HM60525935-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525935-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1028.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

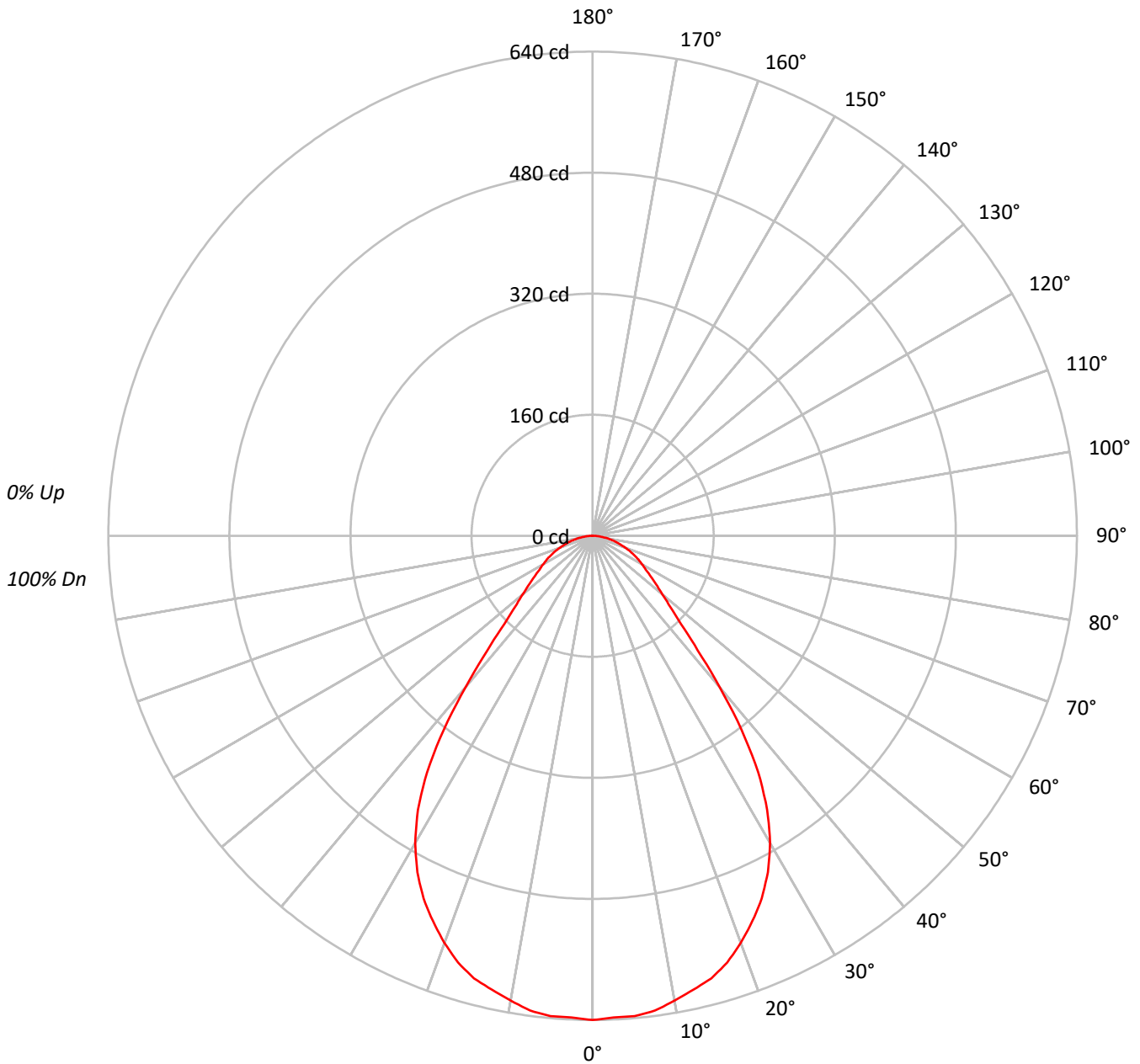
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35085
5°	35070
10°	34724
15°	34370
20°	33399
25°	31992
30°	29688
35°	25538
40°	18649
45°	12777
50°	10268
55°	8946
60°	8267
65°	7861
70°	7325
75°	6863
80°	6219
85°	5346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	5.9
10°-20°	170.1	16.5
20°-30°	241.9	23.5
30°-40°	232.9	22.6
40°-50°	134.0	13.0
50°-60°	84.9	8.3
60°-70°	60.1	5.8
70°-80°	34.2	3.3
80°-90°	9.8	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°	472.4	45.9
0°-40°	705.3	68.6
0°-60°	924.1	89.9
0°-90°	1028.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	640	
5°	637	60
15°	606	170
25°	529	242
35°	382	233
45°	165	134
55°	94	85
65°	61	60
75°	32	34
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	640.0
2.5°	637.3
5°	637.3
7.5°	633.0
10°	623.8
12.5°	614.7
15°	605.6
17.5°	591.5
20°	572.5
22.5°	551.4
25°	528.9
27.5°	501.4
30°	469.0
32.5°	429.5
35°	381.6
37.5°	323.2
40°	260.6
42.5°	205.6
45°	164.8
47.5°	138.7
50°	120.4
52.5°	105.6
55°	93.6
57.5°	83.1
60°	75.4
62.5°	68.3
65°	60.6
67.5°	53.5
70°	45.7
72.5°	38.7
75°	32.4
77.5°	26.0
80°	19.7
82.5°	14.0
85°	8.5
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)