

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: P593082

Luminaire Tested: **HC610D010-HM60525950-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593082
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-HM60525950-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1041.2 lumens
Efficiency: N/A
Efficacy: 105.2 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

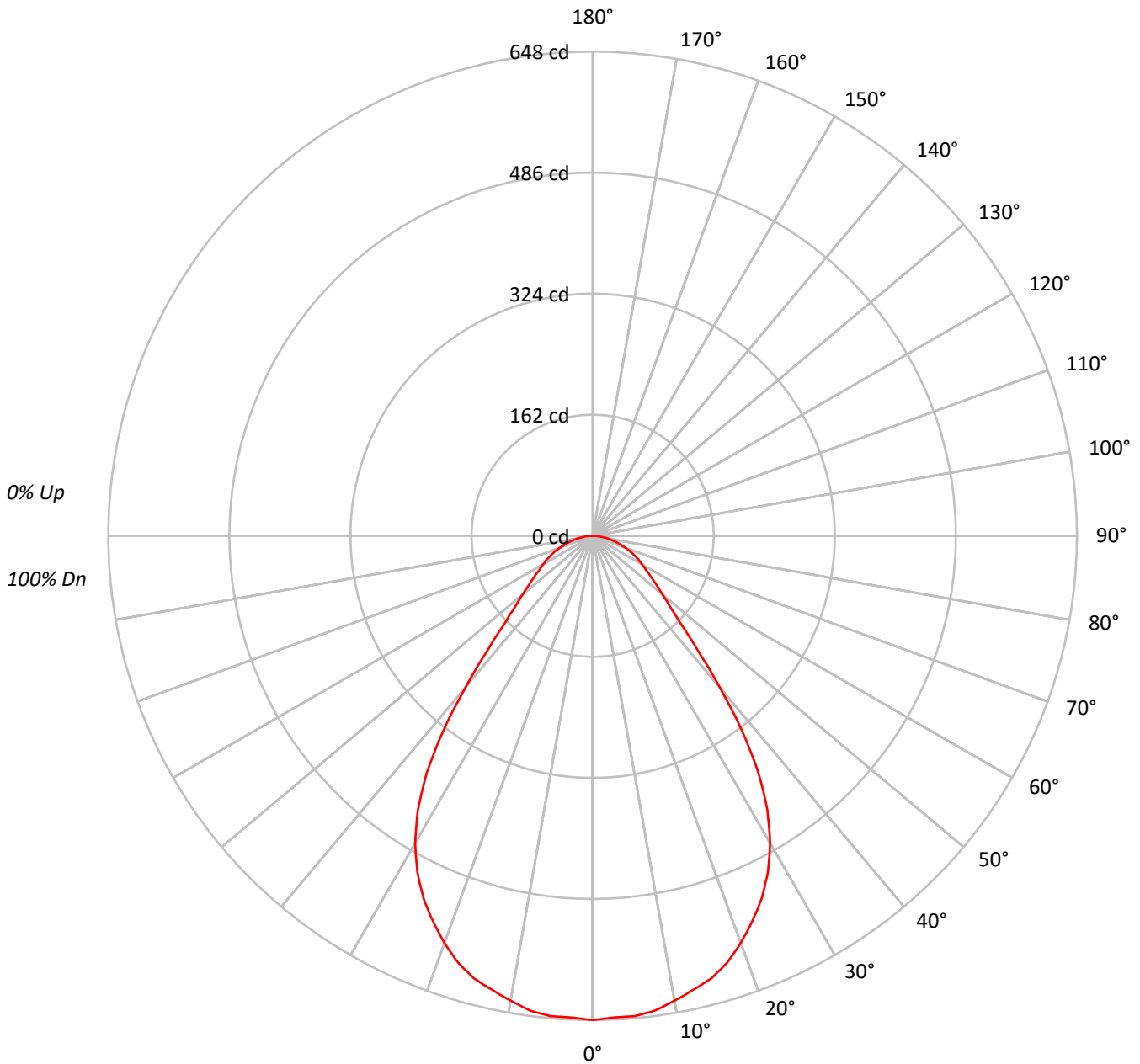
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	35529
5°	35505
10°	35164
15°	34802
20°	33819
25°	32385
30°	30062
35°	25866
40°	18878
45°	12939
50°	10396
55°	9070
60°	8366
65°	7965
70°	7421
75°	6947
80°	6282
85°	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	5.9
10°-20°	172.2	16.5
20°-30°	244.9	23.5
30°-40°	235.8	22.6
40°-50°	135.7	13.0
50°-60°	86.0	8.3
60°-70°	60.9	5.8
70°-80°	34.7	3.3
80°-90°	9.9	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°	478.3	45.9
0°-40°	714.1	68.6
0°-60°	935.8	89.9
0°-90°	1041.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	648	
5°	645	61
15°	613	172
25°	535	245
35°	386	236
45°	167	136
55°	95	86
65°	61	61
75°	33	35
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	648.1
2.5°	645.2
5°	645.2
7.5°	640.9
10°	631.7
12.5°	622.4
15°	613.2
17.5°	598.9
20°	579.7
22.5°	558.3
25°	535.4
27.5°	507.6
30°	474.9
32.5°	434.9
35°	386.5
37.5°	327.3
40°	263.8
42.5°	208.2
45°	166.9
47.5°	140.5
50°	121.9
52.5°	107.0
55°	94.9
57.5°	84.1
60°	76.3
62.5°	69.2
65°	61.4
67.5°	54.2
70°	46.3
72.5°	39.2
75°	32.8
77.5°	26.4
80°	19.9
82.5°	14.3
85°	8.6
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)