

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: P581805

Luminaire Tested: **HC615D010-HM60525935-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581805
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: HC615D010-HM60525935-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1328.9 lumens
Efficiency: N/A
Efficacy: 94.9 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

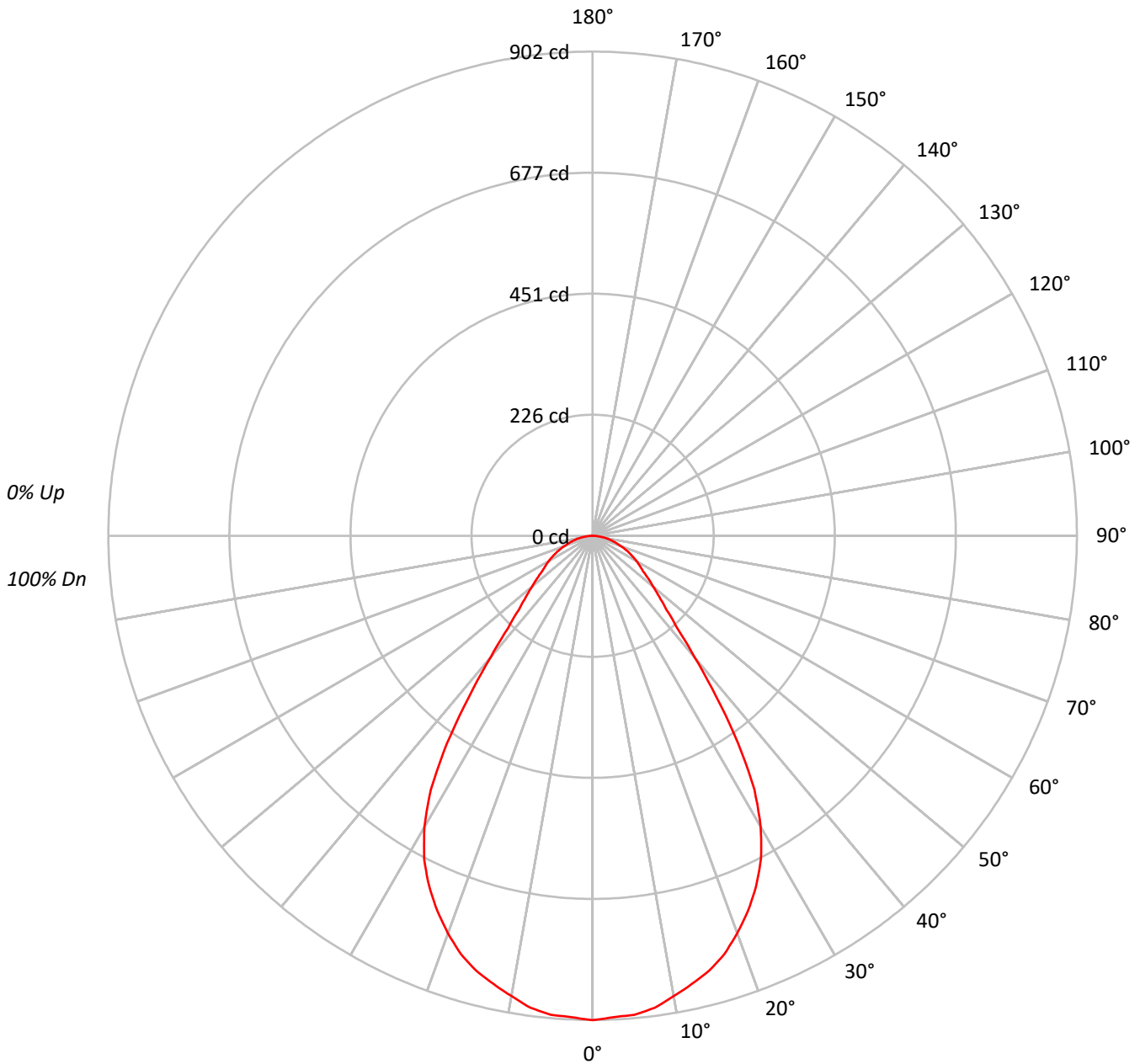
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49470
5°	49284
10°	48468
15°	47611
20°	45965
25°	43587
30°	39645
35°	31675
40°	21132
45°	15064
50°	12554
55°	10943
60°	10339
65°	9729
70°	8944
75°	8366
80°	7608
85°	6667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	6.4
10°-20°	235.5	17.7
20°-30°	329.2	24.8
30°-40°	290.0	21.8
40°-50°	156.6	11.8
50°-60°	104.7	7.9
60°-70°	74.2	5.6
70°-80°	41.8	3.1
80°-90°	12.2	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°	649.4	48.9
0°-40°	939.4	70.7
0°-60°	1200.7	90.4
0°-90°	1328.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1328.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	902	
5°	896	85
15°	839	236
25°	721	329
35°	473	290
45°	194	157
55°	114	105
65°	75	74
75°	40	42
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	902.4
2.5°	897.6
5°	895.6
7.5°	887.0
10°	870.7
12.5°	855.2
15°	838.9
17.5°	816.7
20°	787.9
22.5°	756.1
25°	720.6
27.5°	679.2
30°	626.3
32.5°	560.9
35°	473.3
37.5°	378.1
40°	295.3
42.5°	232.8
45°	194.3
47.5°	168.3
50°	147.2
52.5°	129.8
55°	114.5
57.5°	103.9
60°	94.3
62.5°	84.7
65°	75.0
67.5°	65.4
70°	55.8
72.5°	47.1
75°	39.5
77.5°	31.8
80°	24.1
82.5°	17.4
85°	10.6
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)