

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: P581743

Luminaire Tested: **HC615D010-HM60525835-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581743
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: HC615D010-HM60525835-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1581.8 lumens
Efficiency: N/A
Efficacy: 113.0 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

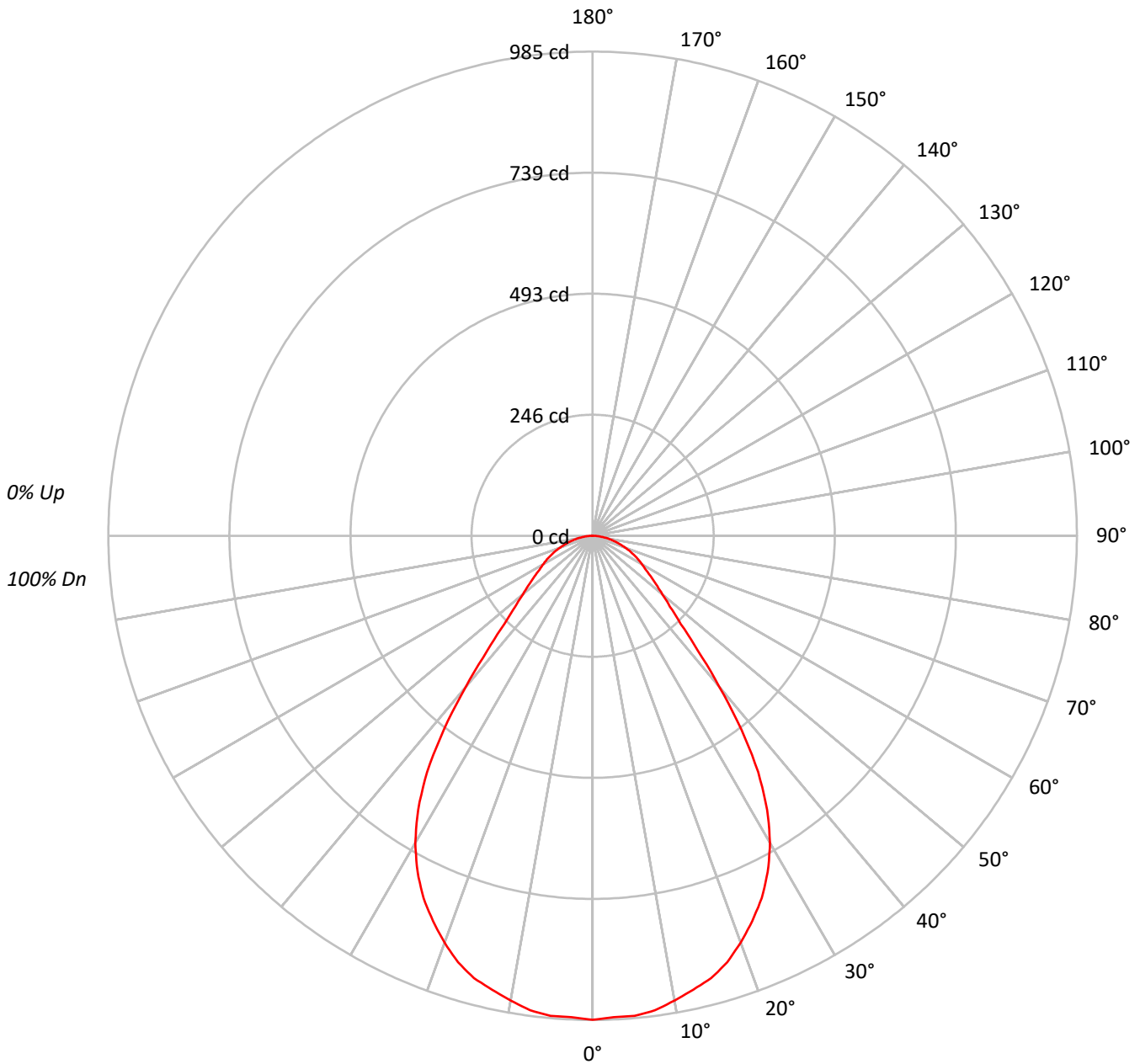
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53981
5°	53945
10°	53428
15°	52872
20°	51373
25°	49213
30°	45665
35°	39291
40°	28682
45°	19645
50°	15795
55°	13763
60°	12707
65°	12089
70°	11284
75°	10548
80°	9566
85°	8240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	5.9
10°-20°	261.6	16.5
20°-30°	372.1	23.5
30°-40°	358.2	22.6
40°-50°	206.1	13.0
50°-60°	130.6	8.3
60°-70°	92.5	5.8
70°-80°	52.7	3.3
80°-90°	15.1	1.0
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°	726.7	45.9
0°-40°	1084.9	68.6
0°-60°	1421.6	89.9
0°-90°	1581.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	985	
5°	980	93
15°	932	262
25°	814	372
35°	587	358
45°	253	206
55°	144	131
65°	93	92
75°	50	53
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	984.7
2.5°	980.3
5°	980.3
7.5°	973.8
10°	959.8
12.5°	945.7
15°	931.6
17.5°	909.9
20°	880.6
22.5°	848.2
25°	813.6
27.5°	771.2
30°	721.4
32.5°	660.8
35°	587.1
37.5°	497.2
40°	400.8
42.5°	316.3
45°	253.4
47.5°	213.4
50°	185.2
52.5°	162.5
55°	144.0
57.5°	127.8
60°	115.9
62.5°	105.1
65°	93.2
67.5°	82.3
70°	70.4
72.5°	59.6
75°	49.8
77.5°	40.1
80°	30.3
82.5°	21.7
85°	13.1
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)