

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: P581751

Luminaire Tested: **HC615D010-HM60525840-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581751
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-HM60525840-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.4 lumens
Efficiency: N/A
Efficacy: 110.3 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

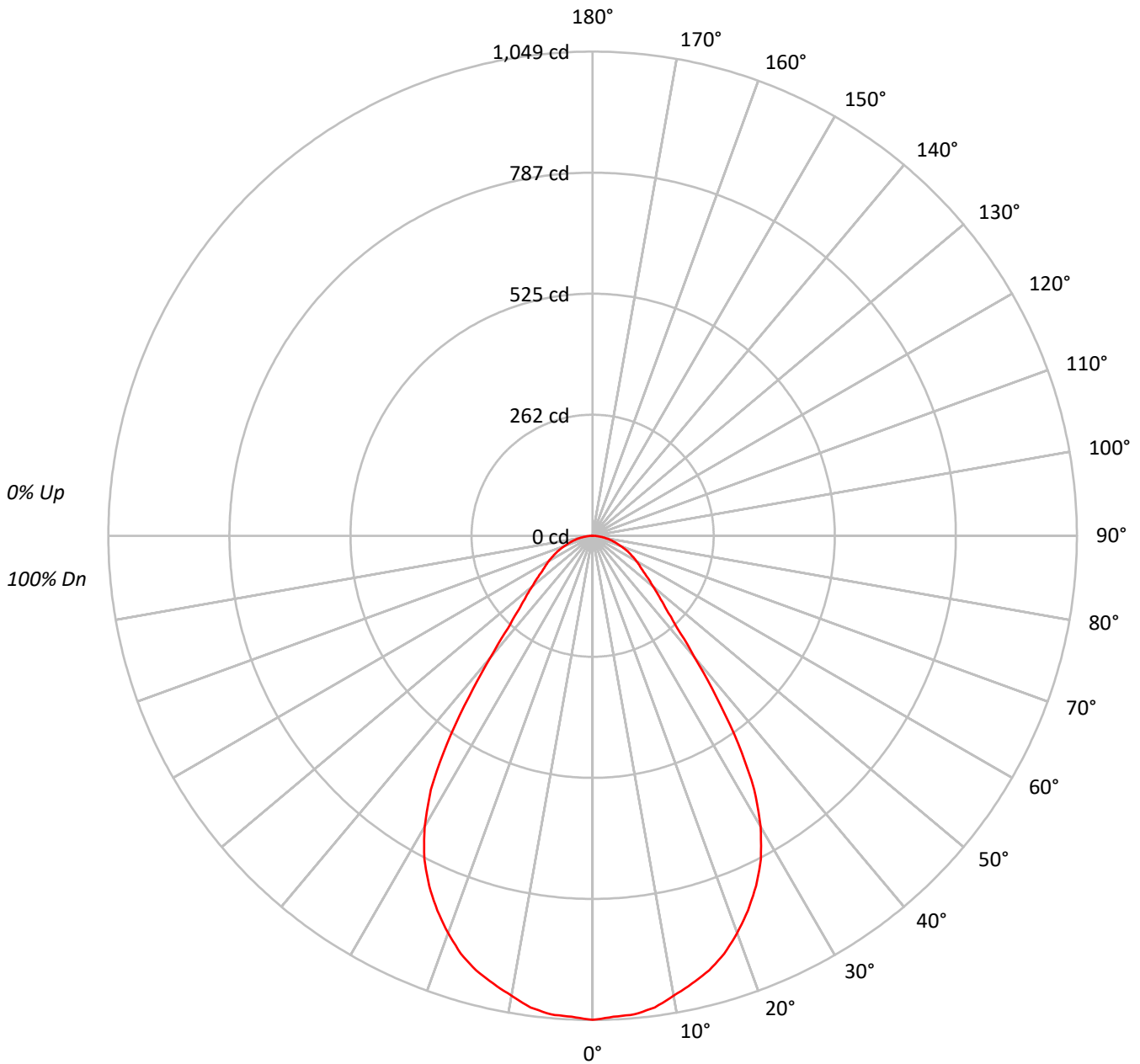
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57490
5°	57280
10°	56328
15°	55335
20°	53420
25°	50652
30°	46077
35°	36814
40°	24560
45°	17513
50°	14584
55°	12712
60°	12006
65°	11311
70°	10386
75°	9722
80°	8808
85°	7737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	6.4
10°-20°	273.7	17.7
20°-30°	382.5	24.8
30°-40°	337.0	21.8
40°-50°	182.1	11.8
50°-60°	121.7	7.9
60°-70°	86.3	5.6
70°-80°	48.5	3.1
80°-90°	14.1	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°	754.7	48.9
0°-40°	1091.7	70.7
0°-60°	1395.5	90.4
0°-90°	1544.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1049	
5°	1041	98
15°	975	274
25°	837	383
35°	550	337
45°	226	182
55°	133	122
65°	87	86
75°	46	49
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1048.7
2.5°	1043.2
5°	1040.9
7.5°	1030.8
10°	1011.9
12.5°	993.9
15°	975.0
17.5°	949.2
20°	915.7
22.5°	878.8
25°	837.4
27.5°	789.4
30°	727.9
32.5°	651.8
35°	550.1
37.5°	439.4
40°	343.2
42.5°	270.6
45°	225.9
47.5°	195.7
50°	171.0
52.5°	151.0
55°	133.0
57.5°	120.8
60°	109.5
62.5°	98.4
65°	87.2
67.5°	76.0
70°	64.8
72.5°	54.8
75°	45.9
77.5°	36.9
80°	27.9
82.5°	20.1
85°	12.3
87.5°	5.6
90°	0.0



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— 0°-180°







(END OF REPORT)