

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: P584610

Luminaire Tested: **HC840D010-HM82555935-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555935-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4410.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

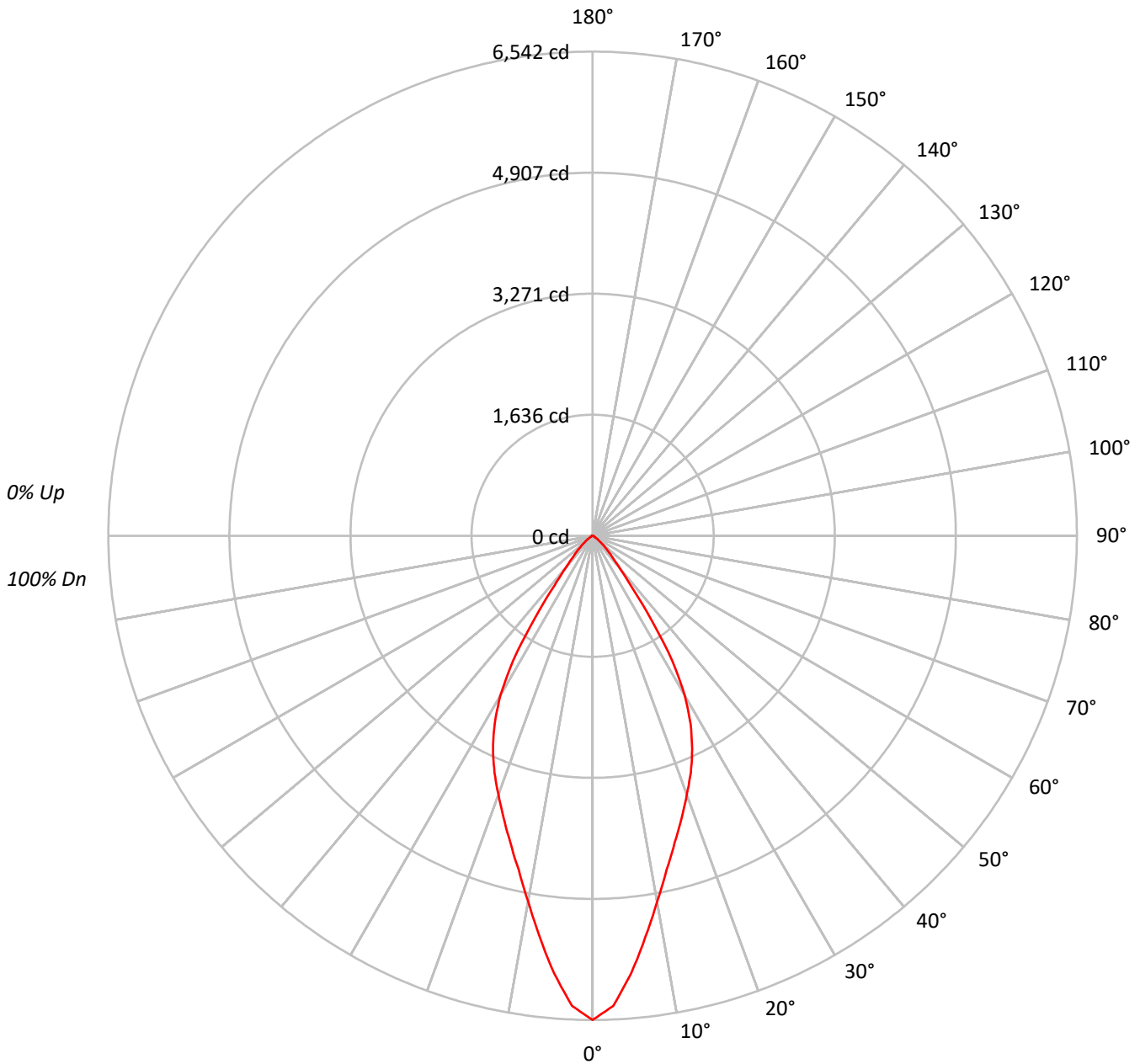
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	201716
5°	183821
10°	157061
15°	136967
20°	122080
25°	108292
30°	88664
35°	50918
40°	22595
45°	13148
50°	7594
55°	4333
60°	2393
65°	1525
70°	1073
75°	703
80°	533
85°	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	12.2
10°-20°	1206.0	27.3
20°-30°	1443.6	32.7
30°-40°	873.3	19.8
40°-50°	244.8	5.5
50°-60°	76.0	1.7
60°-70°	21.7	0.5
70°-80°	5.9	0.1
80°-90°	2.0	0.0
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°	3187.2	72.3
0°-40°	4060.5	92.1
0°-60°	4381.3	99.3
0°-90°	4410.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4410.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6542	
5°	5938	538
15°	4290	1206
25°	3183	1444
35°	1353	873
45°	302	245
55°	81	76
65°	21	22
75°	6	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6541.5
2.5°	6356.5
5°	5938.5
7.5°	5466.7
10°	5016.0
12.5°	4621.8
15°	4290.4
17.5°	3997.8
20°	3720.2
22.5°	3463.4
25°	3182.8
27.5°	2866.2
30°	2490.1
32.5°	2003.4
35°	1352.6
37.5°	841.9
40°	561.3
42.5°	403.1
45°	301.5
47.5°	221.0
50°	158.3
52.5°	110.4
55°	80.6
57.5°	53.8
60°	38.8
62.5°	26.9
65°	20.9
67.5°	14.9
70°	11.9
72.5°	5.9
75°	5.9
77.5°	3.0
80°	3.0
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)