

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: P584588

Luminaire Tested: **HC840D010-HM82555927-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4108.3 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

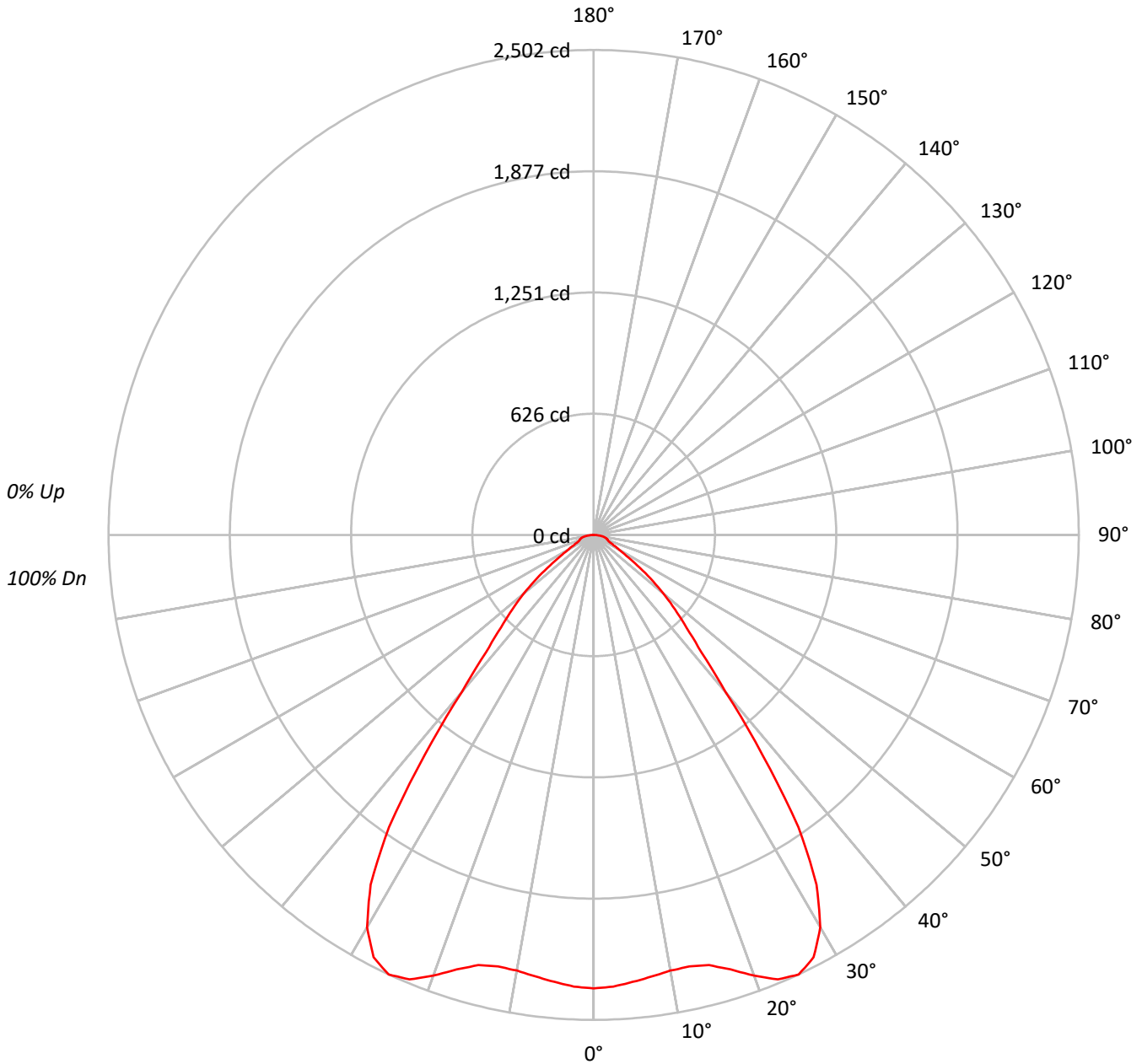
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72151
5°	71656
10°	71467
15°	73342
20°	79400
25°	85128
30°	83224
35°	69299
40°	42577
45°	29480
50°	22499
55°	14752
60°	9232
65°	6917
70°	6978
75°	8030
80°	8861
85°	7961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	5.4
10°-20°	659.5	16.1
20°-30°	1135.3	27.6
30°-40°	1100.0	26.8
40°-50°	541.8	13.2
50°-60°	255.7	6.2
60°-70°	100.8	2.5
70°-80°	69.5	1.7
80°-90°	25.8	0.6
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°	2014.8	49.0
0°-40°	3114.7	75.8
0°-60°	3912.2	95.2
0°-90°	4108.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4108.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2340	
5°	2315	220
15°	2297	659
25°	2502	1135
35°	1841	1100
45°	676	542
55°	274	256
65°	95	101
75°	67	70
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2339.8
2.5°	2332.3
5°	2314.9
7.5°	2297.4
10°	2282.4
12.5°	2279.9
15°	2297.4
17.5°	2349.8
20°	2419.6
22.5°	2482.0
25°	2502.0
27.5°	2457.0
30°	2337.3
32.5°	2140.2
35°	1840.9
37.5°	1429.3
40°	1057.7
42.5°	820.6
45°	676.0
47.5°	568.7
50°	469.0
52.5°	369.1
55°	274.4
57.5°	199.6
60°	149.7
62.5°	117.2
65°	94.8
67.5°	82.3
70°	77.4
72.5°	72.4
75°	67.4
77.5°	59.9
80°	49.9
82.5°	37.4
85°	22.5
87.5°	10.0
90°	0.0



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— 0°-180°







(END OF REPORT)