

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: P584858

Luminaire Tested: **HC850D010-HM82555927-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555927-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4449.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

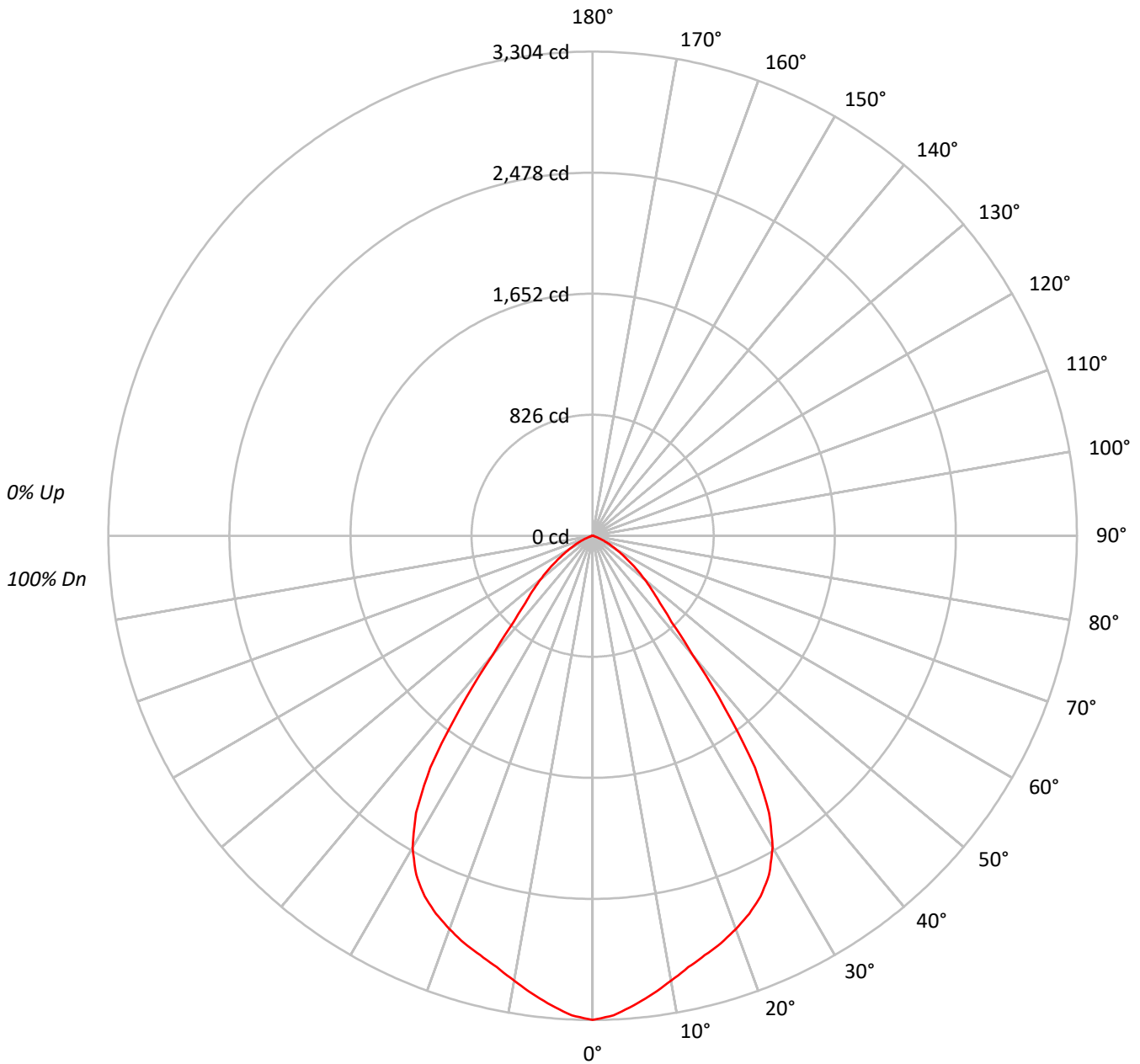
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101874
5°	99579
10°	96526
15°	94572
20°	93724
25°	92324
30°	87454
35°	72657
40°	42790
45°	28302
50°	22274
55°	16392
60°	11385
65°	6946
70°	3029
75°	1334
80°	994
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.9	6.8
10°-20°	837.5	18.8
20°-30°	1240.8	27.9
30°-40°	1146.6	25.8
40°-50°	528.7	11.9
50°-60°	278.0	6.2
60°-70°	98.3	2.2
70°-80°	15.4	0.3
80°-90°	1.5	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°	2381.3	53.5
0°-40°	3527.9	79.3
0°-60°	4334.6	97.4
0°-90°	4449.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4449.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3304	
5°	3217	303
15°	2962	838
25°	2714	1241
35°	1930	1147
45°	649	529
55°	305	278
65°	95	98
75°	11	15
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3303.7
2.5°	3275.7
5°	3217.0
7.5°	3152.7
10°	3082.7
12.5°	3015.6
15°	2962.4
17.5°	2914.9
20°	2856.1
22.5°	2791.8
25°	2713.5
27.5°	2607.1
30°	2456.1
32.5°	2240.7
35°	1930.1
37.5°	1482.6
40°	1063.0
42.5°	797.3
45°	649.0
47.5°	551.1
50°	464.3
52.5°	380.4
55°	304.9
57.5°	240.6
60°	184.6
62.5°	139.8
65°	95.2
67.5°	56.0
70°	33.6
72.5°	19.6
75°	11.2
77.5°	8.4
80°	5.6
82.5°	2.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)