

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: P584818

Luminaire Tested: **HC850D010-HM82555835-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4807.8 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

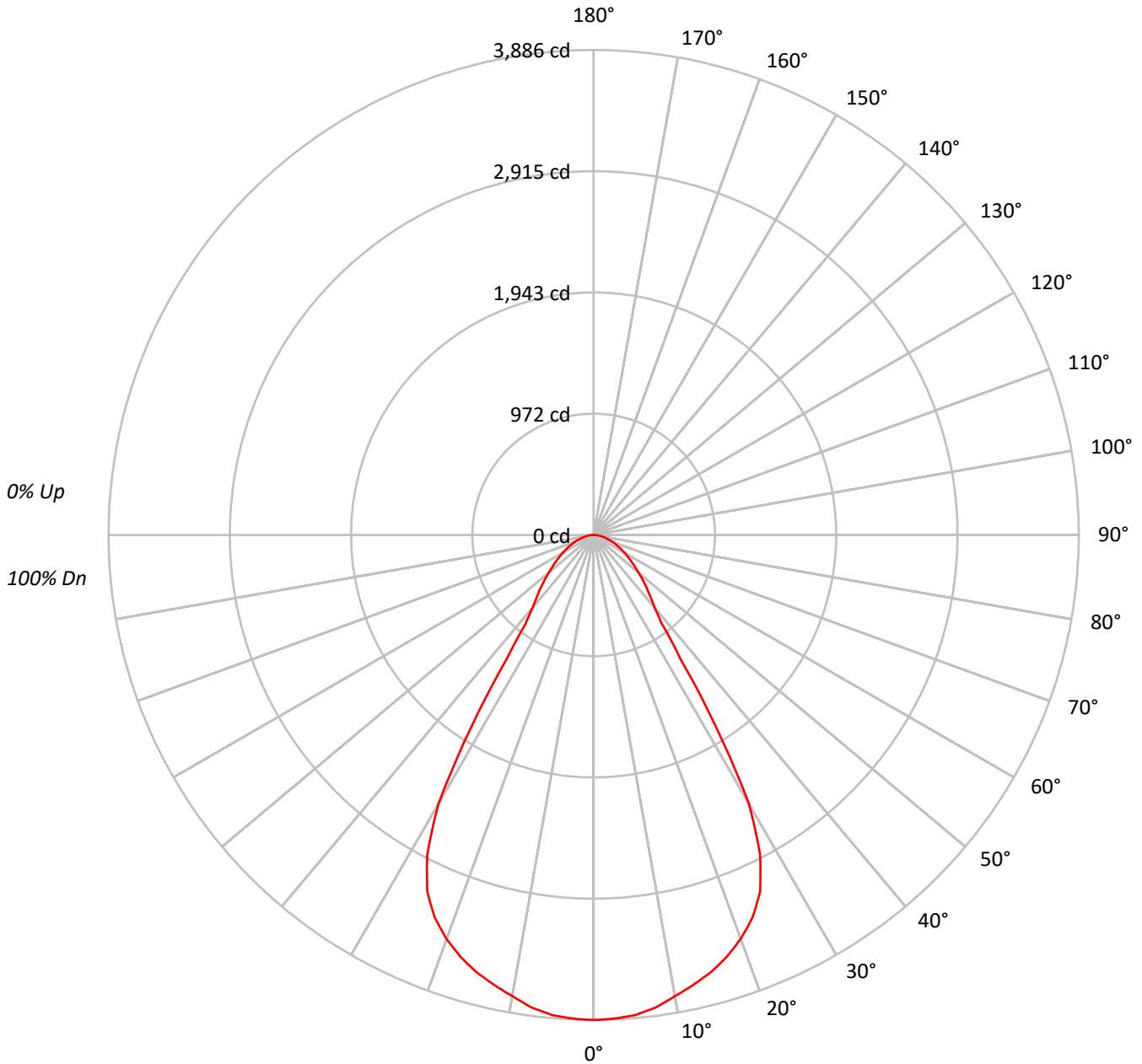
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119839
5°	119517
10°	117527
15°	115808
20°	113032
25°	107298
30°	88500
35°	45565
40°	30508
45°	26157
50°	22571
55°	19698
60°	17497
65°	15731
70°	14245
75°	12844
80°	11472
85°	11463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	7.6
10°-20°	1020.6	21.2
20°-30°	1414.2	29.4
30°-40°	849.4	17.7
40°-50°	465.0	9.7
50°-60°	330.3	6.9
60°-70°	214.5	4.5
70°-80°	114.6	2.4
80°-90°	34.2	0.7
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°	2799.9	58.2
0°-40°	3649.3	75.9
0°-60°	4444.6	92.4
0°-90°	4807.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4807.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3886	
5°	3861	365
15°	3628	1021
25°	3154	1414
35°	1210	849
45°	600	465
55°	366	330
65°	216	214
75°	108	115
85°	32	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3886.3
2.5°	3879.1
5°	3861.1
7.5°	3818.1
10°	3753.4
12.5°	3692.3
15°	3627.6
17.5°	3545.1
20°	3444.5
22.5°	3322.4
25°	3153.6
27.5°	2887.8
30°	2485.5
32.5°	1821.1
35°	1210.4
37.5°	894.4
40°	757.9
42.5°	671.7
45°	599.8
47.5°	531.5
50°	470.5
52.5°	413.0
55°	366.4
57.5°	323.2
60°	283.7
62.5°	247.8
65°	215.6
67.5°	183.2
70°	158.0
72.5°	129.3
75°	107.8
77.5°	86.2
80°	64.6
82.5°	46.6
85°	32.4
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)