

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: P593807

Luminaire Tested: **HC850D010-HM82555950-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593807
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: HC850D010-HM82555950-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5466.8 lumens
Efficiency: N/A
Efficacy: 113.9 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

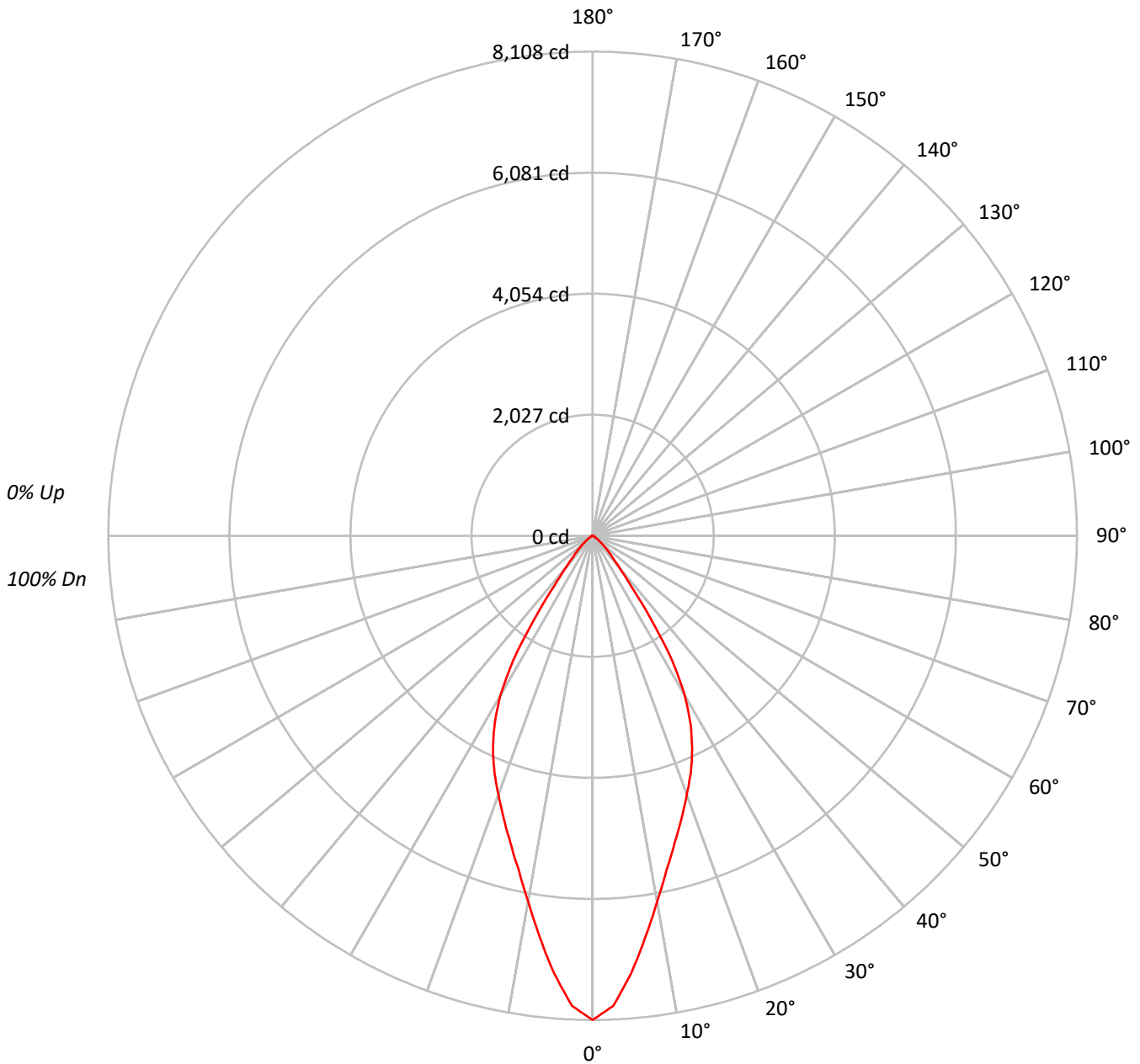
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	250009
5°	227825
10°	194654
15°	169753
20°	151302
25°	134215
30°	109889
35°	63099
40°	28005
45°	16297
50°	9412
55°	5371
60°	2973
65°	1897
70°	1334
75°	882
80°	657
85°	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.2	12.2
10°-20°	1494.7	27.3
20°-30°	1789.2	32.7
30°-40°	1082.4	19.8
40°-50°	303.3	5.5
50°-60°	94.2	1.7
60°-70°	26.9	0.5
70°-80°	7.3	0.1
80°-90°	2.5	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°	3950.1	72.3
0°-40°	5032.5	92.1
0°-60°	5430.0	99.3
0°-90°	5466.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5466.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8108	
5°	7360	666
15°	5317	1495
25°	3945	1789
35°	1676	1082
45°	374	303
55°	100	94
65°	26	27
75°	7	7
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8107.6
2.5°	7878.1
5°	7360.1
7.5°	6775.4
10°	6216.6
12.5°	5728.2
15°	5317.4
17.5°	4954.8
20°	4610.7
22.5°	4292.5
25°	3944.7
27.5°	3552.4
30°	3086.2
32.5°	2483.0
35°	1676.2
37.5°	1043.6
40°	695.7
42.5°	499.5
45°	373.7
47.5°	273.8
50°	196.2
52.5°	136.9
55°	99.9
57.5°	66.6
60°	48.2
62.5°	33.3
65°	26.0
67.5°	18.5
70°	14.8
72.5°	7.4
75°	7.4
77.5°	3.7
80°	3.7
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)