

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: P593501

Luminaire Tested: **HC807D010-HM80520950-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593501
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: HC807D010-HM80520950-81MDH
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: 903.8 lumens
Efficiency: N/A
Efficacy: 113.0 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

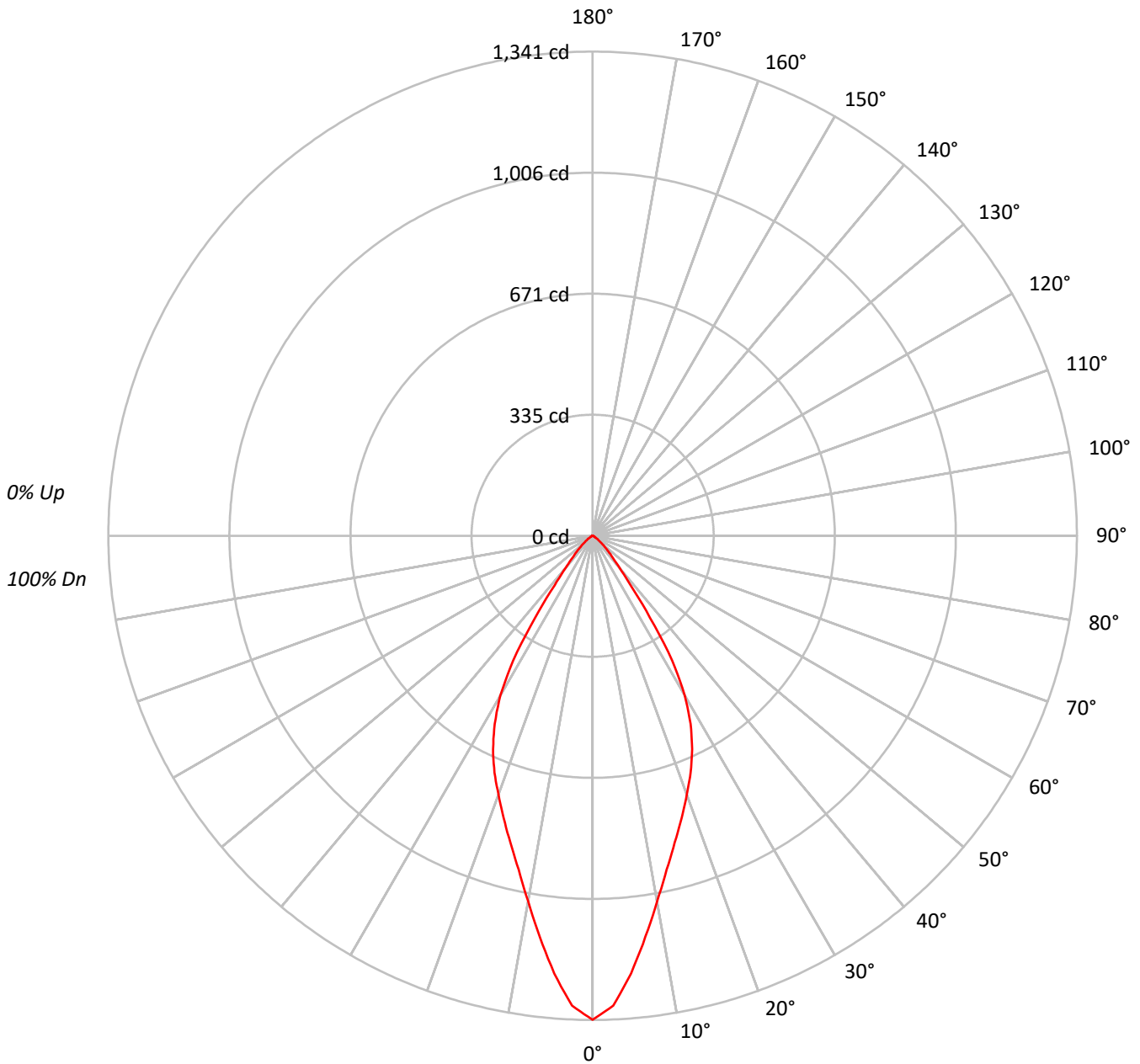
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	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	57	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°	41339
5°	37668
10°	32182
15°	28068
20°	25015
25°	22191
30°	18170
35°	10431
40°	4633
45°	2695
50°	1554
55°	887
60°	493
65°	314
70°	216
75°	143
80°	107
85°	212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	12.2
10°-20°	247.1	27.3
20°-30°	295.8	32.7
30°-40°	179.0	19.8
40°-50°	50.2	5.6
50°-60°	15.6	1.7
60°-70°	4.5	0.5
70°-80°	1.2	0.1
80°-90°	0.4	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°	653.1	72.3
0°-40°	832.1	92.1
0°-60°	897.8	99.3
0°-90°	903.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1341	
5°	1217	110
15°	879	247
25°	652	296
35°	277	179
45°	62	50
55°	16	16
65°	4	4
75°	1	1
85°	1	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1340.6
2.5°	1302.6
5°	1216.9
7.5°	1120.2
10°	1027.8
12.5°	947.0
15°	879.2
17.5°	819.2
20°	762.3
22.5°	709.7
25°	652.2
27.5°	587.3
30°	510.3
32.5°	410.5
35°	277.1
37.5°	172.6
40°	115.1
42.5°	82.6
45°	61.8
47.5°	45.3
50°	32.4
52.5°	22.6
55°	16.5
57.5°	11.0
60°	8.0
62.5°	5.5
65°	4.3
67.5°	3.1
70°	2.4
72.5°	1.2
75°	1.2
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)