

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: P583734

Luminaire Tested: **HC810D010-HM80520835-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583734
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: HC810D010-HM80520835-81NDW
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: 1078.9 lumens
Efficiency: N/A
Efficacy: 109.0 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

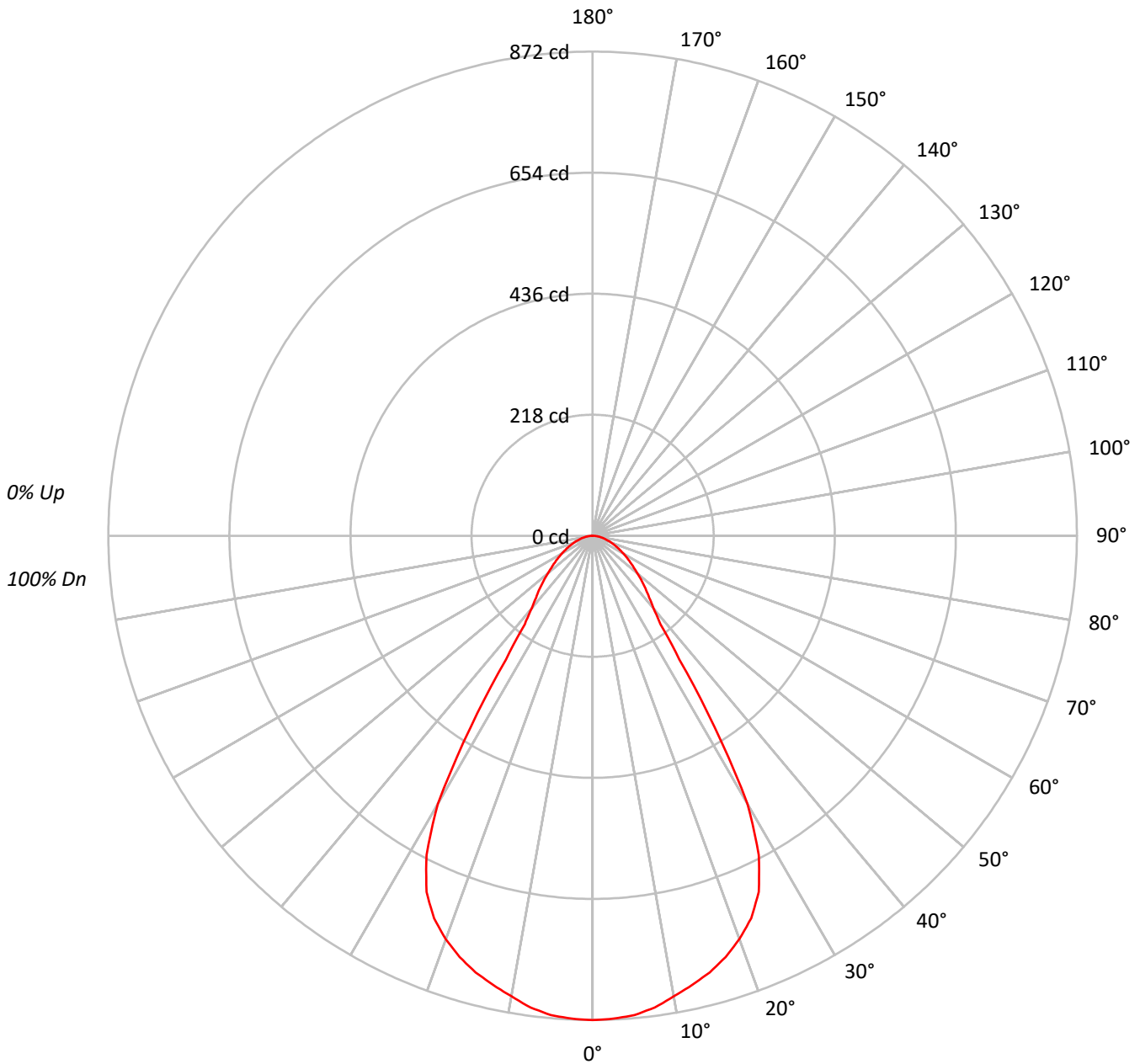
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	26895
5°	26822
10°	26371
15°	25989
20°	25366
25°	24079
30°	19858
35°	10228
40°	6847
45°	5870
50°	5061
55°	4419
60°	3929
65°	3524
70°	3201
75°	2883
80°	2575
85°	2547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	7.6
10°-20°	229.0	21.2
20°-30°	317.3	29.4
30°-40°	190.6	17.7
40°-50°	104.3	9.7
50°-60°	74.1	6.9
60°-70°	48.1	4.5
70°-80°	25.7	2.4
80°-90°	7.7	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°	628.3	58.2
0°-40°	818.9	75.9
0°-60°	997.4	92.4
0°-90°	1078.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	872	
5°	866	82
15°	814	229
25°	708	317
35°	272	191
45°	135	104
55°	82	74
65°	48	48
75°	24	26
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	872.2
2.5°	870.5
5°	866.5
7.5°	856.8
10°	842.2
12.5°	828.5
15°	814.1
17.5°	795.6
20°	773.0
22.5°	745.6
25°	707.7
27.5°	648.0
30°	557.7
32.5°	408.7
35°	271.7
37.5°	200.7
40°	170.1
42.5°	150.7
45°	134.6
47.5°	119.2
50°	105.5
52.5°	92.7
55°	82.2
57.5°	72.6
60°	63.7
62.5°	55.7
65°	48.3
67.5°	41.1
70°	35.5
72.5°	29.0
75°	24.2
77.5°	19.4
80°	14.5
82.5°	10.5
85°	7.2
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)