

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: P583640

Luminaire Tested: **HC807D010-HM80520927-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 836.9 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

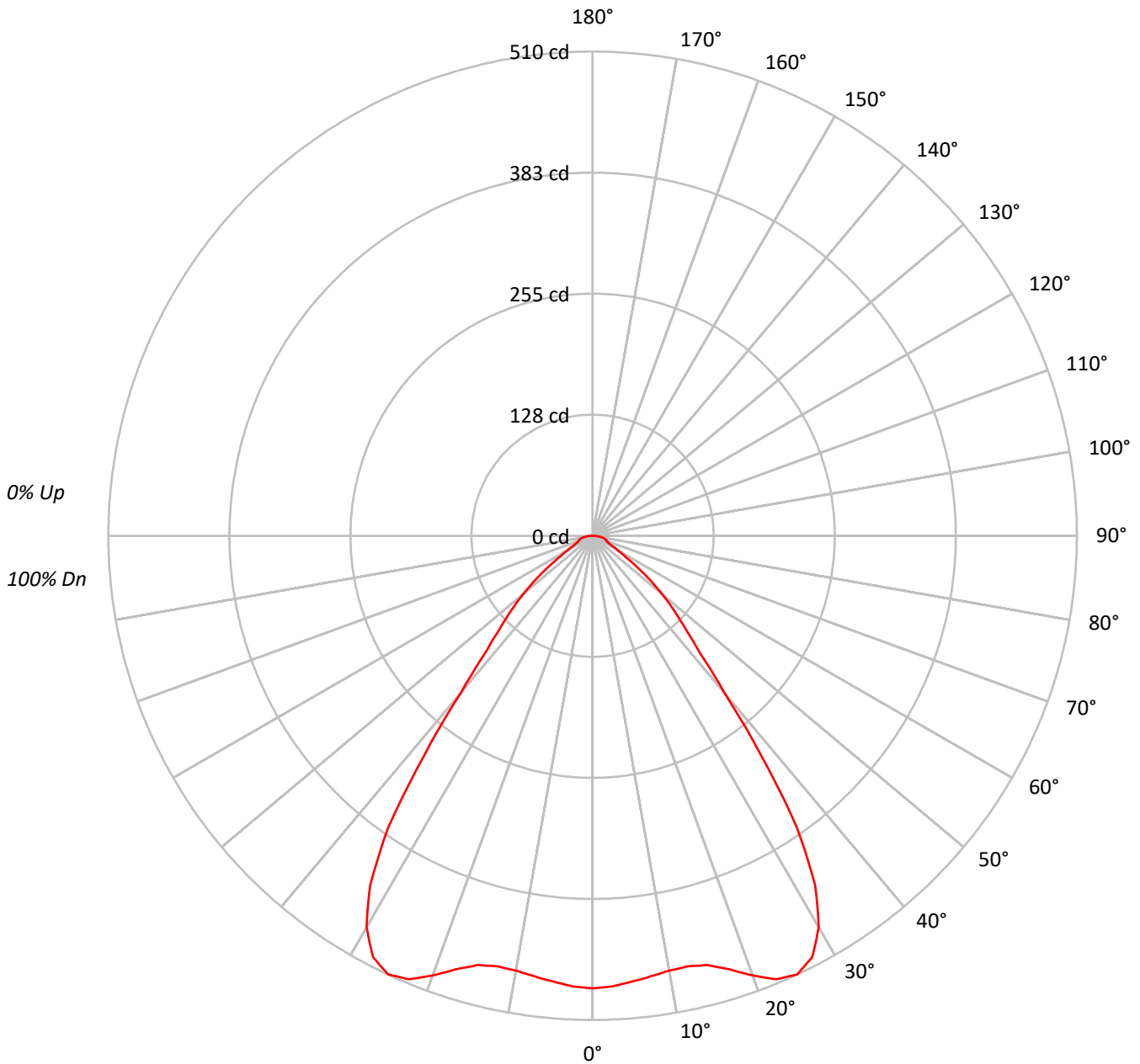
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14700
5°	14595
10°	14560
15°	14944
20°	16175
25°	17342
30°	16956
35°	14117
40°	8675
45°	6005
50°	4581
55°	3005
60°	1881
65°	1416
70°	1425
75°	1632
80°	1811
85°	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	5.4
10°-20°	134.4	16.1
20°-30°	231.3	27.6
30°-40°	224.1	26.8
40°-50°	110.4	13.2
50°-60°	52.1	6.2
60°-70°	20.5	2.5
70°-80°	14.2	1.7
80°-90°	5.2	0.6
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°	410.5	49.0
0°-40°	634.6	75.8
0°-60°	797.0	95.2
0°-90°	836.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	477	
5°	472	45
15°	468	134
25°	510	231
35°	375	224
45°	138	110
55°	56	52
65°	19	21
75°	14	14
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	476.7
2.5°	475.1
5°	471.5
7.5°	468.1
10°	465.0
12.5°	464.5
15°	468.1
17.5°	478.7
20°	492.9
22.5°	505.6
25°	509.7
27.5°	500.6
30°	476.2
32.5°	436.1
35°	375.0
37.5°	291.2
40°	215.5
42.5°	167.2
45°	137.7
47.5°	115.9
50°	95.5
52.5°	75.2
55°	55.9
57.5°	40.6
60°	30.5
62.5°	23.9
65°	19.4
67.5°	16.7
70°	15.8
72.5°	14.7
75°	13.7
77.5°	12.2
80°	10.2
82.5°	7.6
85°	4.5
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)