

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: P583572

Luminaire Tested: **HC807D010-HM80520827-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583572
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-HM80520827-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1030.8 lumens
Efficiency: N/A
Efficacy: 128.8 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

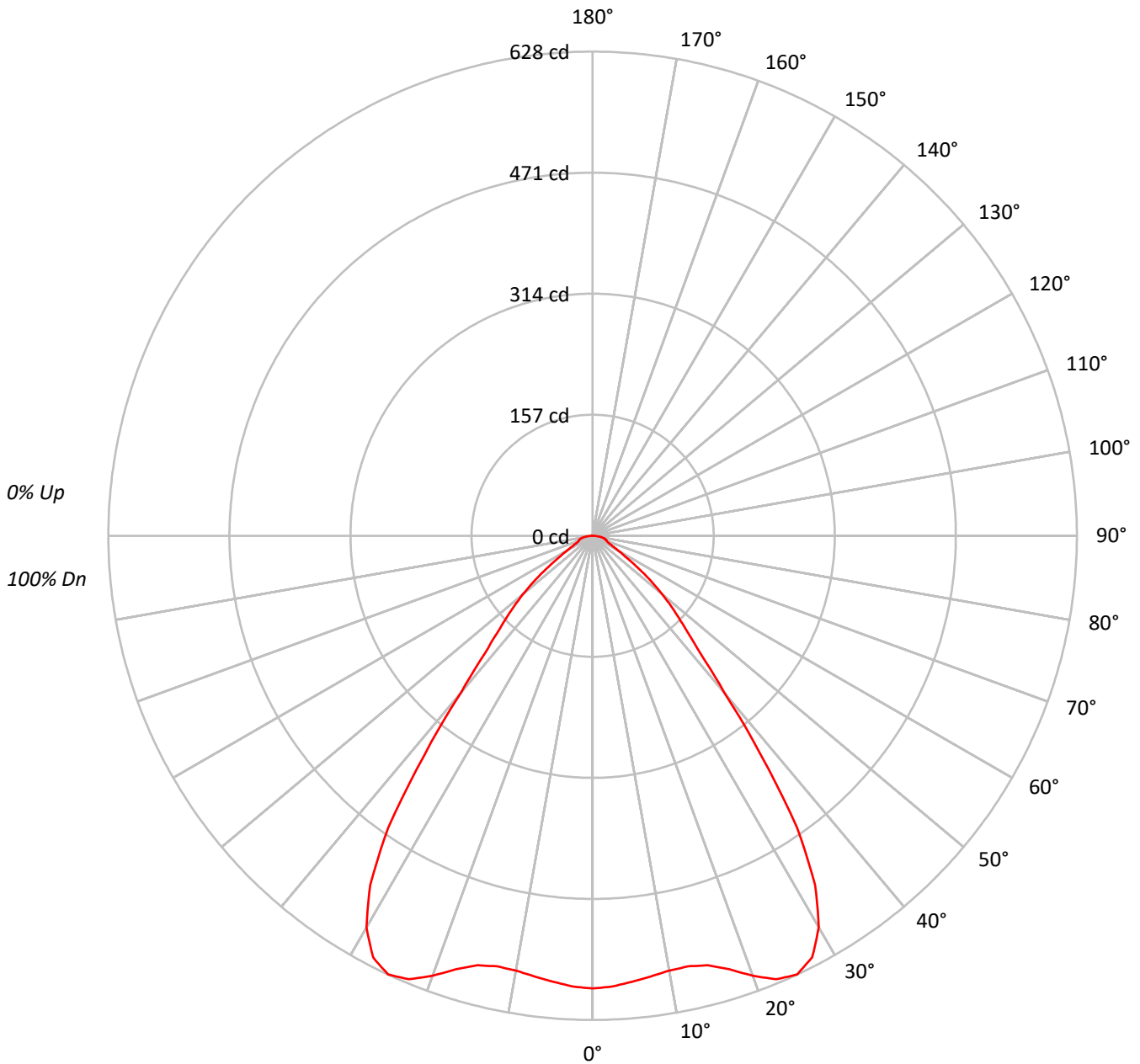
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18104
5°	17978
10°	17929
15°	18404
20°	19922
25°	21357
30°	20883
35°	17388
40°	10683
45°	7396
50°	5646
55°	3699
60°	2313
65°	1737
70°	1749
75°	2002
80°	2220
85°	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	5.4
10°-20°	165.5	16.1
20°-30°	284.9	27.6
30°-40°	276.0	26.8
40°-50°	135.9	13.2
50°-60°	64.1	6.2
60°-70°	25.3	2.5
70°-80°	17.4	1.7
80°-90°	6.5	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°	505.5	49.0
0°-40°	781.5	75.8
0°-60°	981.6	95.2
0°-90°	1030.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	587	
5°	581	55
15°	576	165
25°	628	285
35°	462	276
45°	170	136
55°	69	64
65°	24	25
75°	17	17
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	587.1
2.5°	585.2
5°	580.8
7.5°	576.5
10°	572.6
12.5°	572.0
15°	576.5
17.5°	589.6
20°	607.1
22.5°	622.7
25°	627.7
27.5°	616.5
30°	586.5
32.5°	537.0
35°	461.9
37.5°	358.6
40°	265.4
42.5°	205.9
45°	169.6
47.5°	142.7
50°	117.7
52.5°	92.6
55°	68.8
57.5°	50.1
60°	37.5
62.5°	29.4
65°	23.8
67.5°	20.7
70°	19.4
72.5°	18.2
75°	16.8
77.5°	15.1
80°	12.5
82.5°	9.4
85°	5.6
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)