

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: P581444

Luminaire Tested: **HC407D010-HM40525835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 956.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

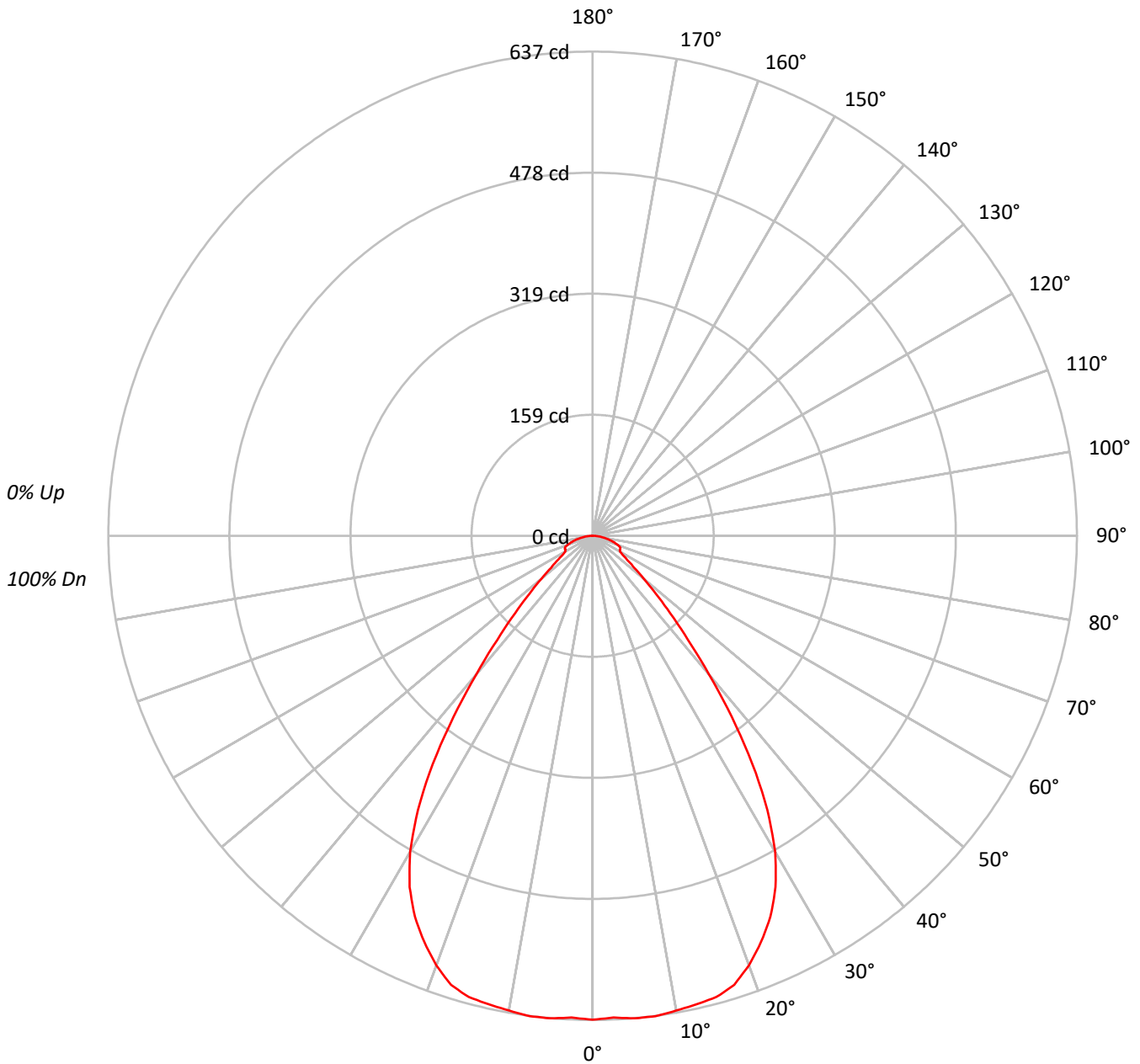
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	78534
5°	78908
10°	79445
15°	80245
20°	78915
25°	75289
30°	68394
35°	55171
40°	38274
45°	25136
50°	16829
55°	12000
60°	10238
65°	11762
70°	12586
75°	12153
80°	10939
85°	10190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	6.3
10°-20°	176.5	18.5
20°-30°	252.2	26.4
30°-40°	225.3	23.6
40°-50°	115.6	12.1
50°-60°	52.5	5.5
60°-70°	39.2	4.1
70°-80°	26.6	2.8
80°-90°	7.9	0.8
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°	489.5	51.2
0°-40°	714.8	74.7
0°-60°	882.9	92.3
0°-90°	956.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	637	
5°	637	61
15°	628	177
25°	553	252
35°	366	225
45°	144	116
55°	56	53
65°	40	39
75°	26	27
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	636.7
2.5°	634.3
5°	637.3
7.5°	637.3
10°	634.3
12.5°	631.4
15°	628.4
17.5°	619.5
20°	601.2
22.5°	578.7
25°	553.2
27.5°	521.1
30°	480.2
32.5°	428.0
35°	366.4
37.5°	300.5
40°	237.7
42.5°	185.6
45°	144.1
47.5°	112.7
50°	87.7
52.5°	68.7
55°	55.8
57.5°	46.9
60°	41.5
62.5°	40.3
65°	40.3
67.5°	39.1
70°	34.9
72.5°	30.3
75°	25.5
77.5°	20.1
80°	15.4
82.5°	11.3
85°	7.2
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)