

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: P583510

Luminaire Tested: **HC805D010-HM80520930-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520930-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 631.7 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

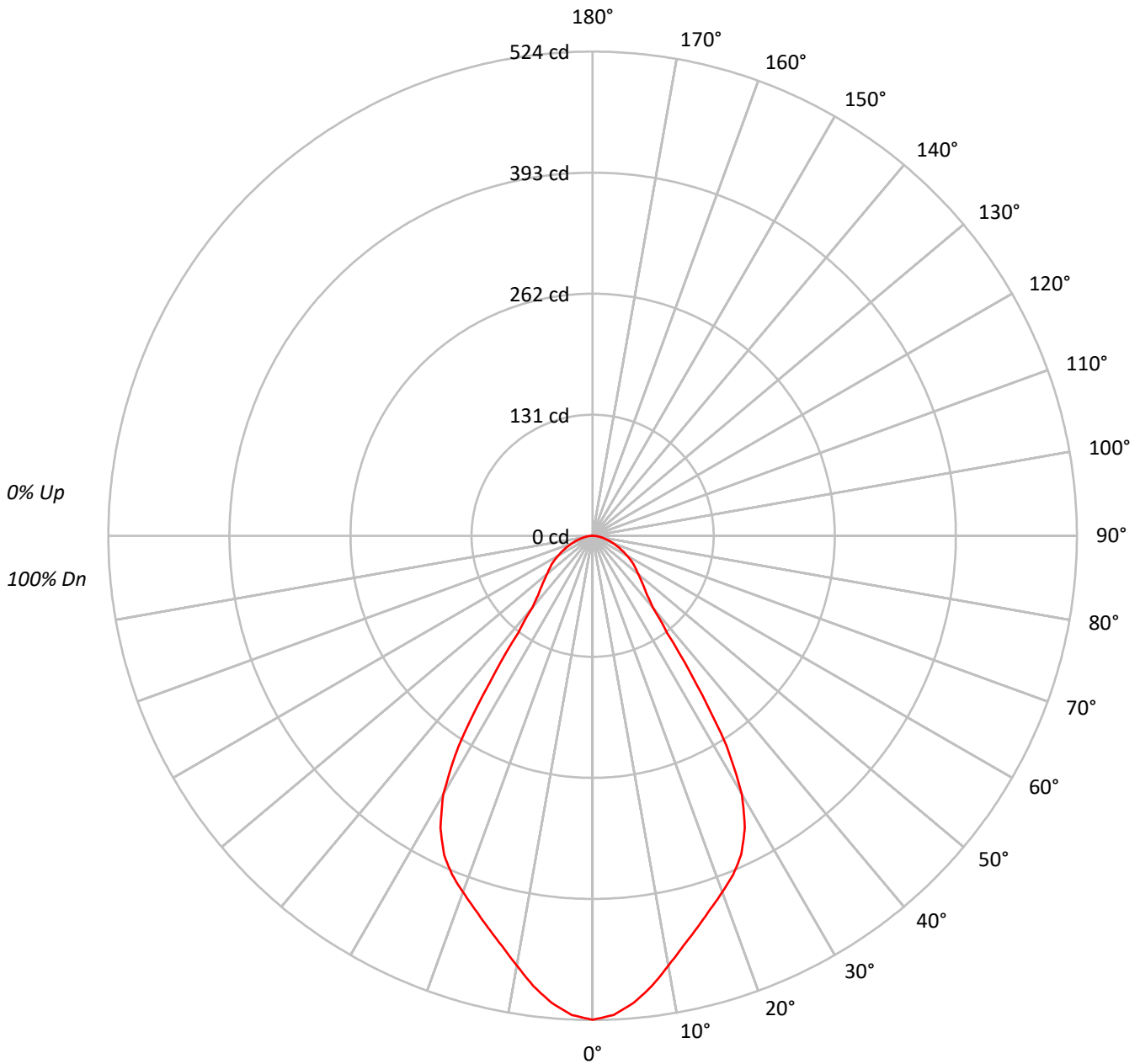
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16152
5°	15712
10°	14786
15°	13999
20°	13464
25°	12946
30°	11501
35°	7322
40°	4086
45°	3423
50°	3089
55°	2914
60°	2658
65°	2393
70°	2119
75°	1882
80°	1651
85°	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	7.5
10°-20°	123.7	19.6
20°-30°	172.5	27.3
30°-40°	124.1	19.7
40°-50°	61.6	9.7
50°-60°	48.1	7.6
60°-70°	32.6	5.2
70°-80°	16.9	2.7
80°-90°	4.9	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°	343.5	54.4
0°-40°	467.7	74.0
0°-60°	577.4	91.4
0°-90°	631.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	631.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	524	
5°	508	47
15°	438	124
25°	380	173
35°	194	124
45°	78	62
55°	54	48
65°	33	33
75°	16	17
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	523.8
2.5°	519.1
5°	507.6
7.5°	491.4
10°	472.2
12.5°	454.3
15°	438.5
17.5°	423.6
20°	410.3
22.5°	397.2
25°	380.5
27.5°	356.6
30°	323.0
32.5°	270.0
35°	194.5
37.5°	132.6
40°	101.5
42.5°	87.5
45°	78.5
47.5°	70.9
50°	64.4
52.5°	58.9
55°	54.2
57.5°	48.6
60°	43.1
62.5°	37.6
65°	32.8
67.5°	28.1
70°	23.5
72.5°	19.6
75°	15.8
77.5°	12.3
80°	9.3
82.5°	6.8
85°	4.3
87.5°	2.2
90°	0.0



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— 0°-180°







(END OF REPORT)