

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: P583435

Luminaire Tested: **HC805D010-HM80520827-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC805D010-HM80520827-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 728.6 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

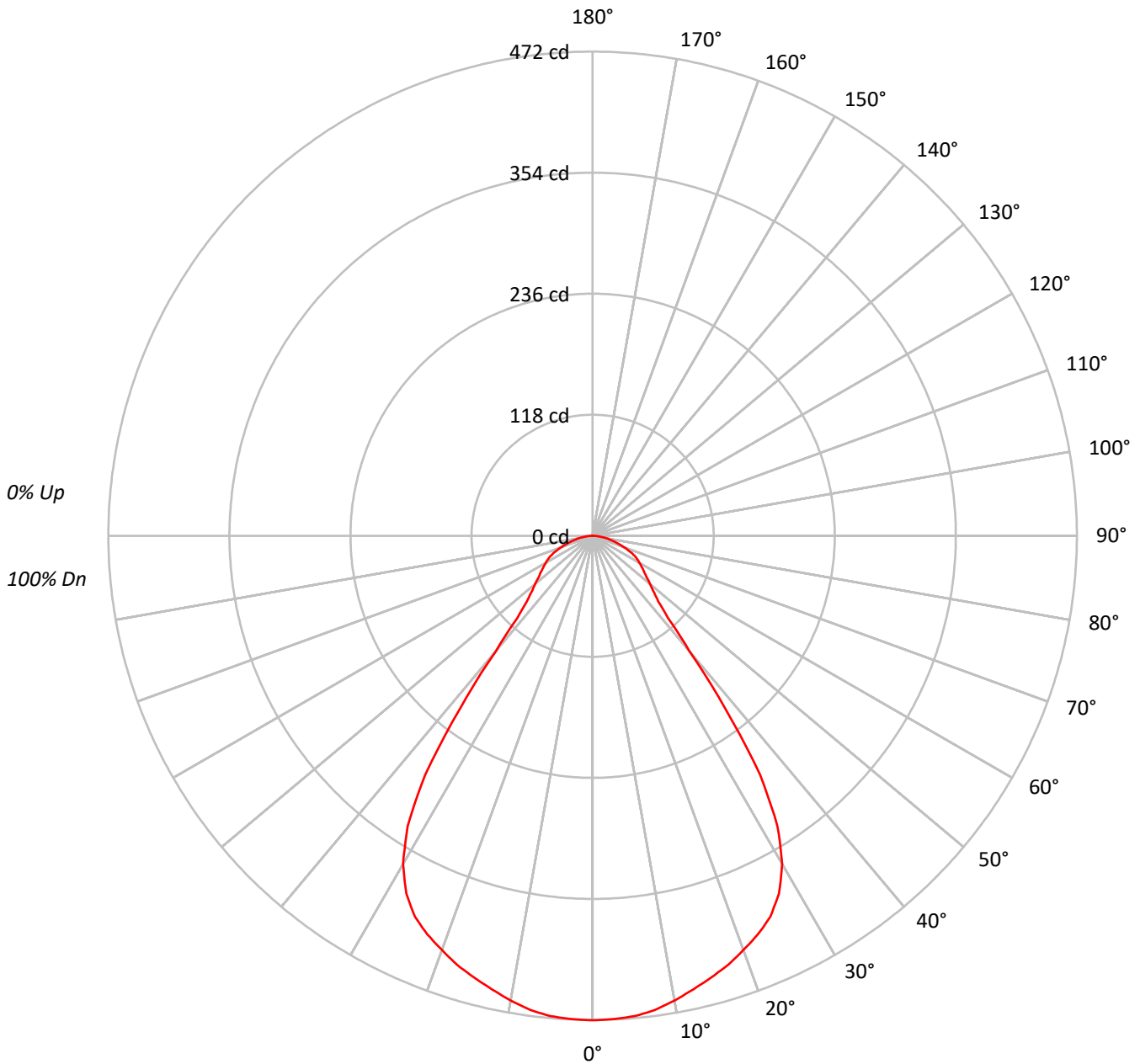
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	14564
5°	14552
10°	14404
15°	14235
20°	14101
25°	13940
30°	13157
35°	10710
40°	5917
45°	3951
50°	3502
55°	3290
60°	3250
65°	3210
70°	2903
75°	2597
80°	2273
85°	2017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	6.1
10°-20°	125.9	17.3
20°-30°	187.0	25.7
30°-40°	168.4	23.1
40°-50°	74.7	10.2
50°-60°	55.3	7.6
60°-70°	43.0	5.9
70°-80°	23.3	3.2
80°-90°	6.4	0.9
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°	357.5	49.1
0°-40°	525.9	72.2
0°-60°	655.9	90.0
0°-90°	728.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	472	
5°	470	45
15°	446	126
25°	410	187
35°	284	168
45°	91	75
55°	61	55
65°	44	43
75°	22	23
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	472.3
2.5°	471.5
5°	470.1
7.5°	466.2
10°	460.0
12.5°	452.9
15°	445.9
17.5°	438.7
20°	429.7
22.5°	420.7
25°	409.7
27.5°	393.2
30°	369.5
32.5°	335.3
35°	284.5
37.5°	212.5
40°	147.0
42.5°	108.6
45°	90.6
47.5°	80.2
50°	73.0
52.5°	66.4
55°	61.2
57.5°	56.9
60°	52.7
62.5°	48.8
65°	44.0
67.5°	38.4
70°	32.2
72.5°	27.1
75°	21.8
77.5°	17.1
80°	12.8
82.5°	9.0
85°	5.7
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)