

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: P583530

Luminaire Tested: **HC805D010-HM80520935-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC805D010-HM80520935-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 603.3 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

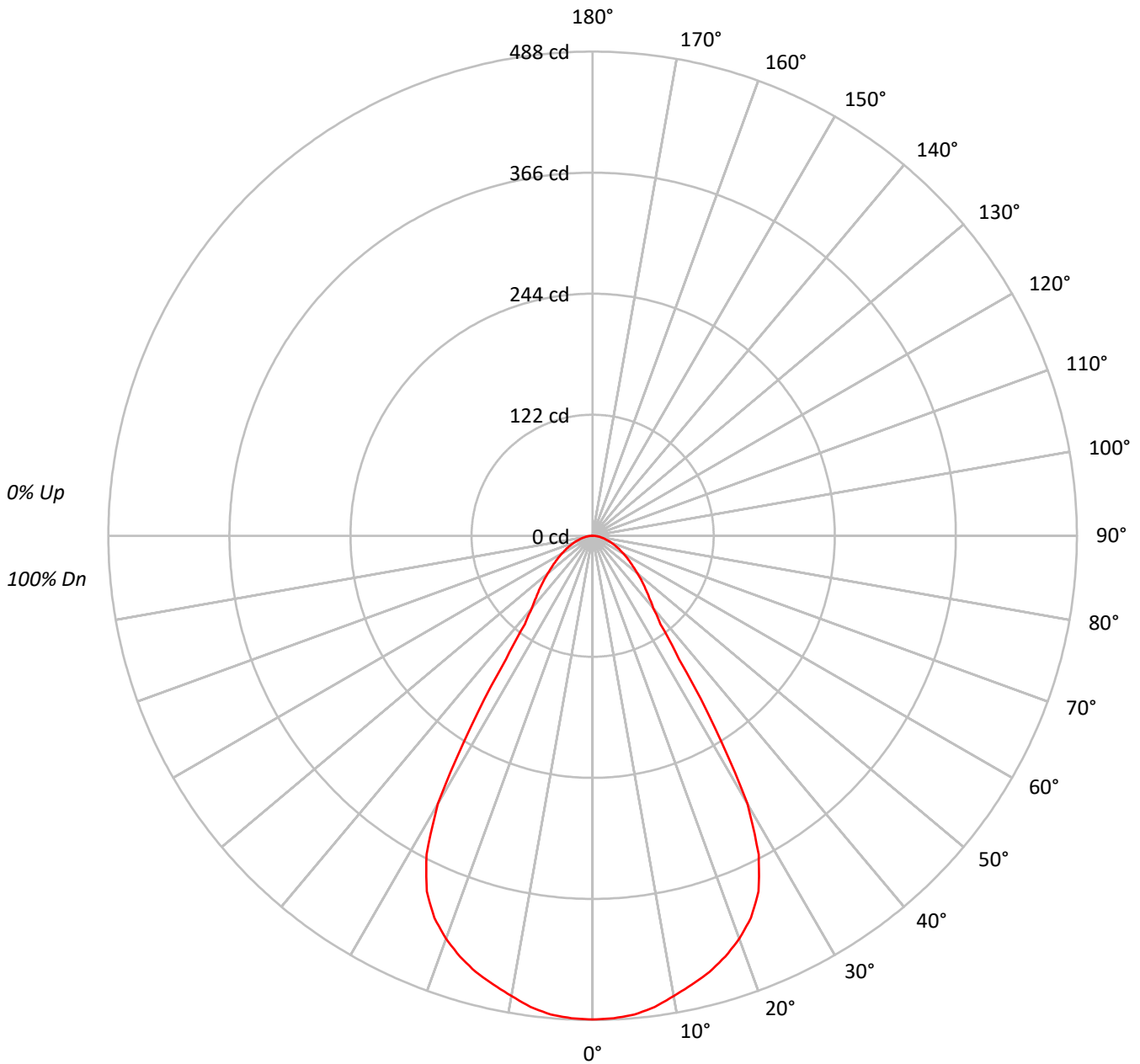
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	15033
5°	14994
10°	14745
15°	14529
20°	14179
25°	13460
30°	11102
35°	5718
40°	3824
45°	3284
50°	2830
55°	2473
60°	2196
65°	1977
70°	1794
75°	1608
80°	1438
85°	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	7.6
10°-20°	128.0	21.2
20°-30°	177.4	29.4
30°-40°	106.6	17.7
40°-50°	58.3	9.7
50°-60°	41.5	6.9
60°-70°	26.9	4.5
70°-80°	14.4	2.4
80°-90°	4.3	0.7
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°	351.2	58.2
0°-40°	457.8	75.9
0°-60°	557.6	92.4
0°-90°	603.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	603.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	488	
5°	484	46
15°	455	128
25°	396	177
35°	152	107
45°	75	58
55°	46	41
65°	27	27
75°	14	14
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	487.5
2.5°	486.7
5°	484.4
7.5°	479.0
10°	470.9
12.5°	463.2
15°	455.1
17.5°	444.7
20°	432.1
22.5°	416.8
25°	395.6
27.5°	362.3
30°	311.8
32.5°	228.5
35°	151.9
37.5°	112.2
40°	95.0
42.5°	84.3
45°	75.3
47.5°	66.7
50°	59.0
52.5°	51.8
55°	46.0
57.5°	40.6
60°	35.6
62.5°	31.1
65°	27.1
67.5°	23.0
70°	19.9
72.5°	16.3
75°	13.5
77.5°	10.8
80°	8.1
82.5°	5.9
85°	4.1
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)