

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: P593466

Luminaire Tested: **HC805D010-HM80520950-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593466  
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: HC805D010-HM80520950-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 763.8 lumens  
Efficiency: N/A  
Efficacy: 127.3 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

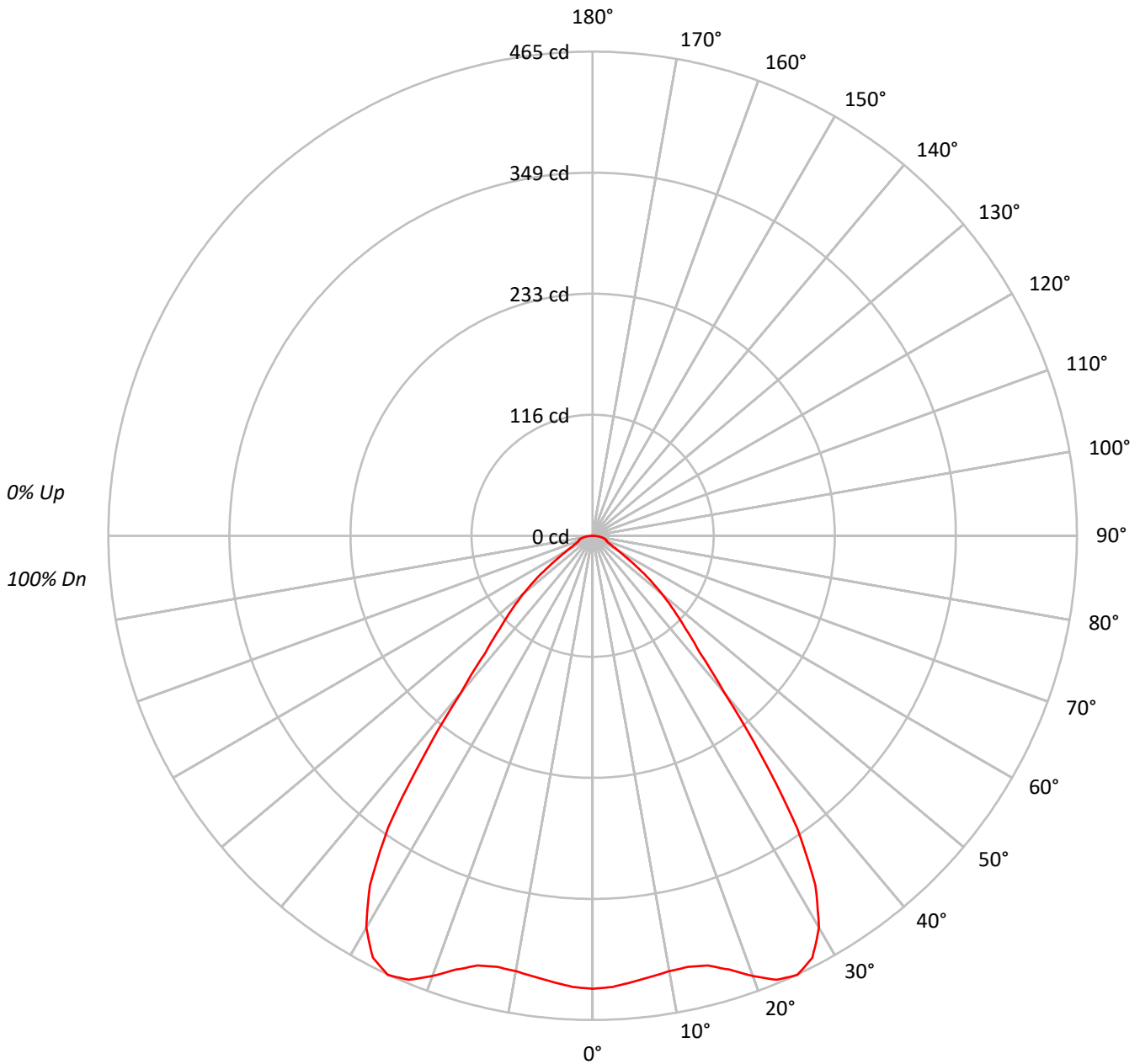
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	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°	13417
5°	13323
10°	13292
15°	13638
20°	14767
25°	15831
30°	15475
35°	12886
40°	7918
45°	5482
50°	4178
55°	2742
60°	1714
65°	1284
70°	1298
75°	1501
80°	1634
85°	1486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.9	5.4
10°-20°	122.6	16.1
20°-30°	211.1	27.6
30°-40°	204.5	26.8
40°-50°	100.7	13.2
50°-60°	47.5	6.2
60°-70°	18.7	2.5
70°-80°	12.9	1.7
80°-90°	4.8	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°	374.7	49.1
0°-40°	579.2	75.8
0°-60°	727.4	95.2
0°-90°	763.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	763.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	435	
5°	430	41
15°	427	123
25°	465	211
35°	342	205
45°	126	101
55°	51	48
65°	18	19
75°	13	13
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	435.1
2.5°	433.7
5°	430.4
7.5°	427.2
10°	424.5
12.5°	424.0
15°	427.2
17.5°	436.9
20°	450.0
22.5°	461.6
25°	465.3
27.5°	456.9
30°	434.6
32.5°	398.0
35°	342.3
37.5°	265.7
40°	196.7
42.5°	152.6
45°	125.7
47.5°	105.7
50°	87.1
52.5°	68.6
55°	51.0
57.5°	37.1
60°	27.8
62.5°	21.8
65°	17.6
67.5°	15.3
70°	14.4
72.5°	13.4
75°	12.6
77.5°	11.1
80°	9.2
82.5°	6.9
85°	4.2
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)