

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: P583752

Luminaire Tested: **HC810D010-HM80520840-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC810D010-HM80520840-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1287.3 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

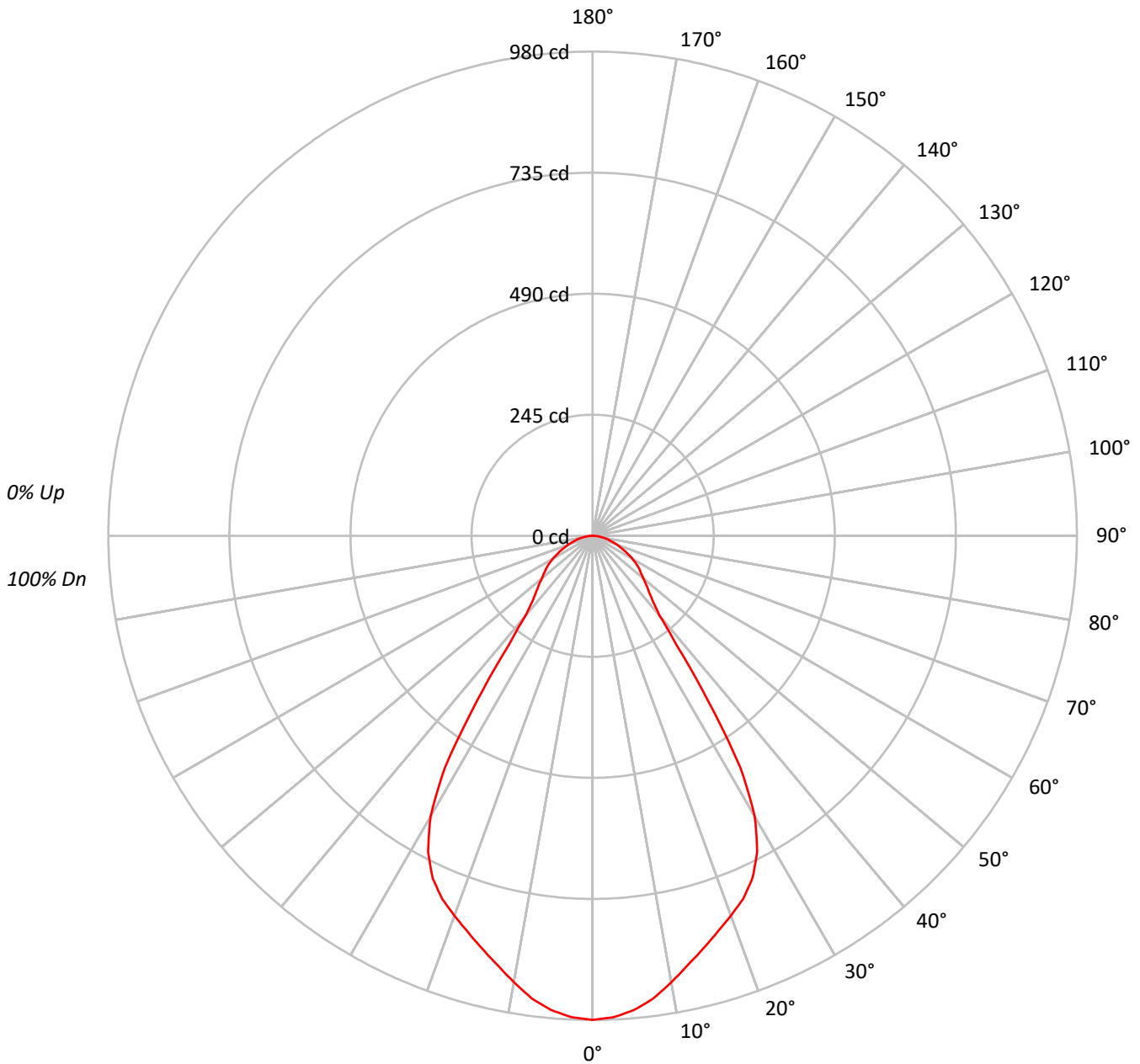
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
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°	30217
5°	29824
10°	28732
15°	27608
20°	26846
25°	26035
30°	23365
35°	15317
40°	8469
45°	7060
50°	6433
55°	6145
60°	5717
65°	5181
70°	4679
75°	4230
80°	3836
85°	3644



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	7.0
10°-20°	244.0	19.0
20°-30°	347.2	27.0
30°-40°	257.0	20.0
40°-50°	127.3	9.9
50°-60°	101.6	7.9
60°-70°	70.5	5.5
70°-80°	38.0	3.0
80°-90°	11.2	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°	681.7	53.0
0°-40°	938.7	72.9
0°-60°	1167.6	90.7
0°-90°	1287.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1287.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	980	
5°	964	91
15°	865	244
25°	765	347
35°	407	257
45°	162	127
55°	114	102
65°	71	71
75°	36	38
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	979.9
2.5°	975.5
5°	963.5
7.5°	944.4
10°	917.6
12.5°	889.8
15°	864.8
17.5°	840.6
20°	818.1
22.5°	795.5
25°	765.2
27.5°	721.1
30°	656.2
32.5°	556.6
35°	406.9
37.5°	277.9
40°	210.4
42.5°	180.1
45°	161.9
47.5°	147.1
50°	134.1
52.5°	123.0
55°	114.3
57.5°	103.9
60°	92.7
62.5°	81.4
65°	71.0
67.5°	60.6
70°	51.9
72.5°	43.3
75°	35.5
77.5°	28.6
80°	21.6
82.5°	15.6
85°	10.3
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)