

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: P583748

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583748  
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: HC810D010-HM80520840-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1282.1 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

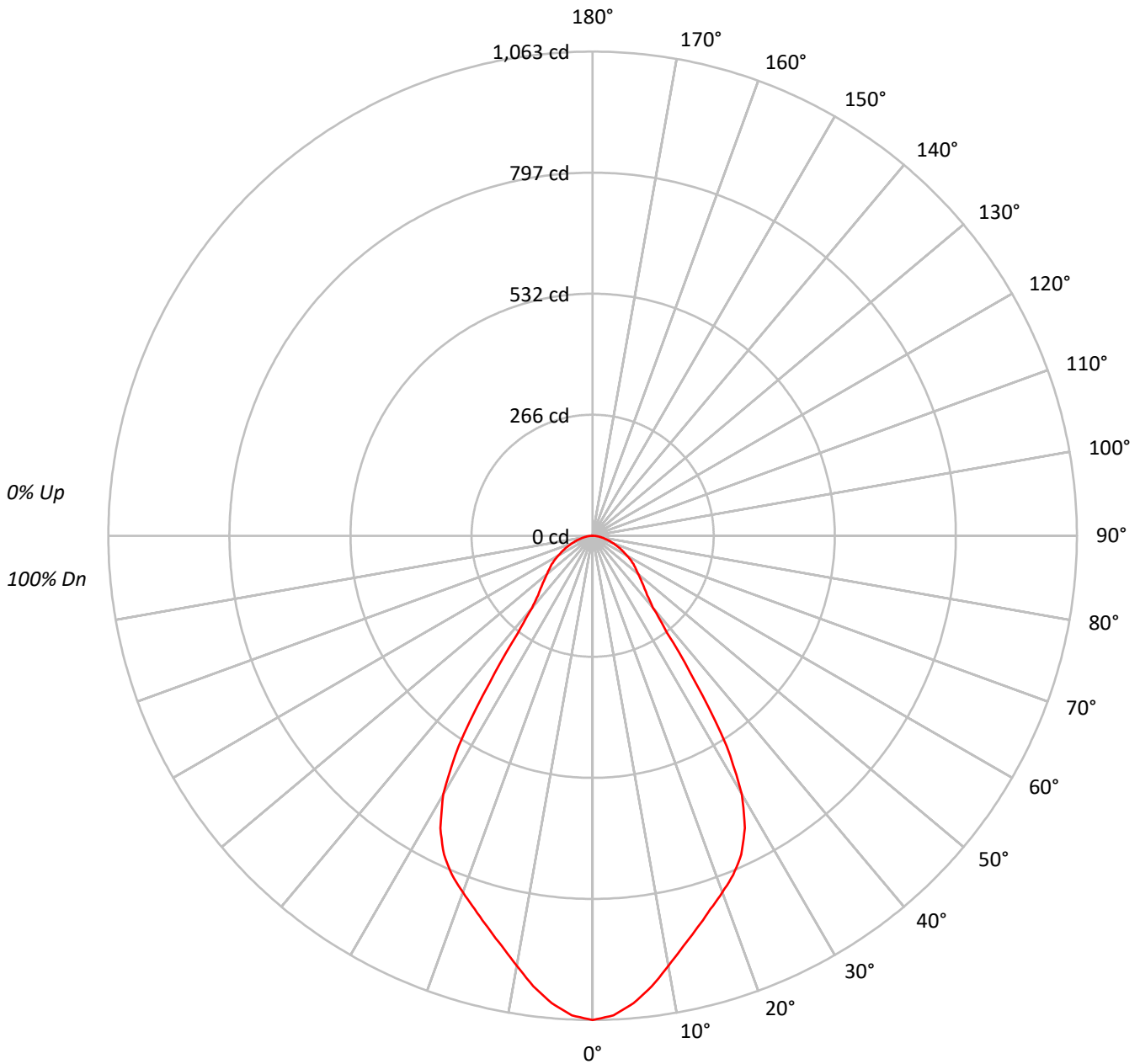
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	32785
5°	31889
10°	30009
15°	28412
20°	27332
25°	26277
30°	23333
35°	14858
40°	8292
45°	6947
50°	6275
55°	5914
60°	5390
65°	4867
70°	4292
75°	3813
80°	3374
85°	3078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	7.5
10°-20°	251.0	19.6
20°-30°	350.2	27.3
30°-40°	251.9	19.6
40°-50°	124.9	9.7
50°-60°	97.7	7.6
60°-70°	66.1	5.2
70°-80°	34.3	2.7
80°-90°	9.9	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°	697.2	54.4
0°-40°	949.1	74.0
0°-60°	1171.7	91.4
0°-90°	1282.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1282.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1063	
5°	1030	96
15°	890	251
25°	772	350
35°	395	252
45°	159	125
55°	110	98
65°	67	66
75°	32	34
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1063.2
2.5°	1053.7
5°	1030.2
7.5°	997.3
10°	958.4
12.5°	922.1
15°	890.0
17.5°	859.7
20°	832.9
22.5°	806.1
25°	772.3
27.5°	723.7
30°	655.3
32.5°	548.0
35°	394.7
37.5°	269.2
40°	206.0
42.5°	177.5
45°	159.3
47.5°	143.8
50°	130.8
52.5°	119.5
55°	110.0
57.5°	98.7
60°	87.4
62.5°	76.2
65°	66.7
67.5°	57.1
70°	47.6
72.5°	39.8
75°	32.0
77.5°	25.1
80°	19.0
82.5°	13.8
85°	8.7
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)