

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: P583731

Luminaire Tested: **HC810D010-HM80520835-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583731  
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-HM80520835-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1193.3 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

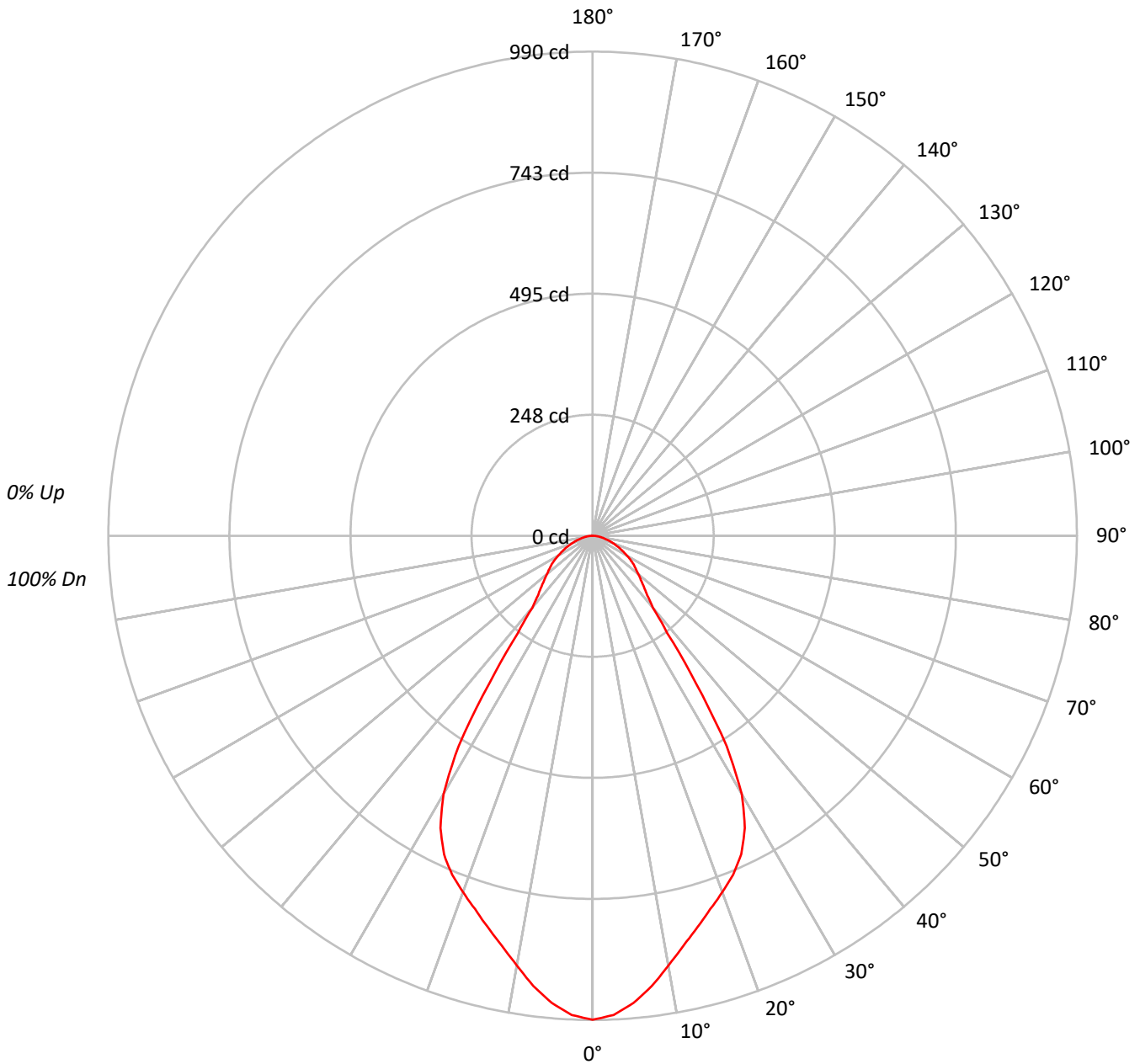
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

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

	0°
0°	30516
5°	29685
10°	27930
15°	26446
20°	25438
25°	24457
30°	21720
35°	13834
40°	7721
45°	6467
50°	5833
55°	5500
60°	5020
65°	4524
70°	4003
75°	3550
80°	3143
85°	2866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	7.5
10°-20°	233.6	19.6
20°-30°	325.9	27.3
30°-40°	234.5	19.7
40°-50°	116.2	9.7
50°-60°	90.9	7.6
60°-70°	61.5	5.2
70°-80°	31.9	2.7
80°-90°	9.2	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°	648.9	54.4
0°-40°	883.5	74.0
0°-60°	1090.6	91.4
0°-90°	1193.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1193.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	990	
5°	959	89
15°	828	234
25°	719	326
35°	368	235
45°	148	116
55°	102	91
65°	62	62
75°	30	32
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	989.6
2.5°	980.7
5°	959.0
7.5°	928.3
10°	892.0
12.5°	858.2
15°	828.4
17.5°	800.2
20°	775.2
22.5°	750.2
25°	718.8
27.5°	673.7
30°	610.0
32.5°	510.1
35°	367.5
37.5°	250.6
40°	191.8
42.5°	165.2
45°	148.3
47.5°	133.8
50°	121.6
52.5°	111.2
55°	102.3
57.5°	91.8
60°	81.4
62.5°	70.9
65°	62.0
67.5°	53.1
70°	44.4
72.5°	37.0
75°	29.8
77.5°	23.3
80°	17.7
82.5°	12.9
85°	8.1
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)