

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: P583735

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583735  
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-HM80520835-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1198.2 lumens  
Efficiency: N/A  
Efficacy: 121.0 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

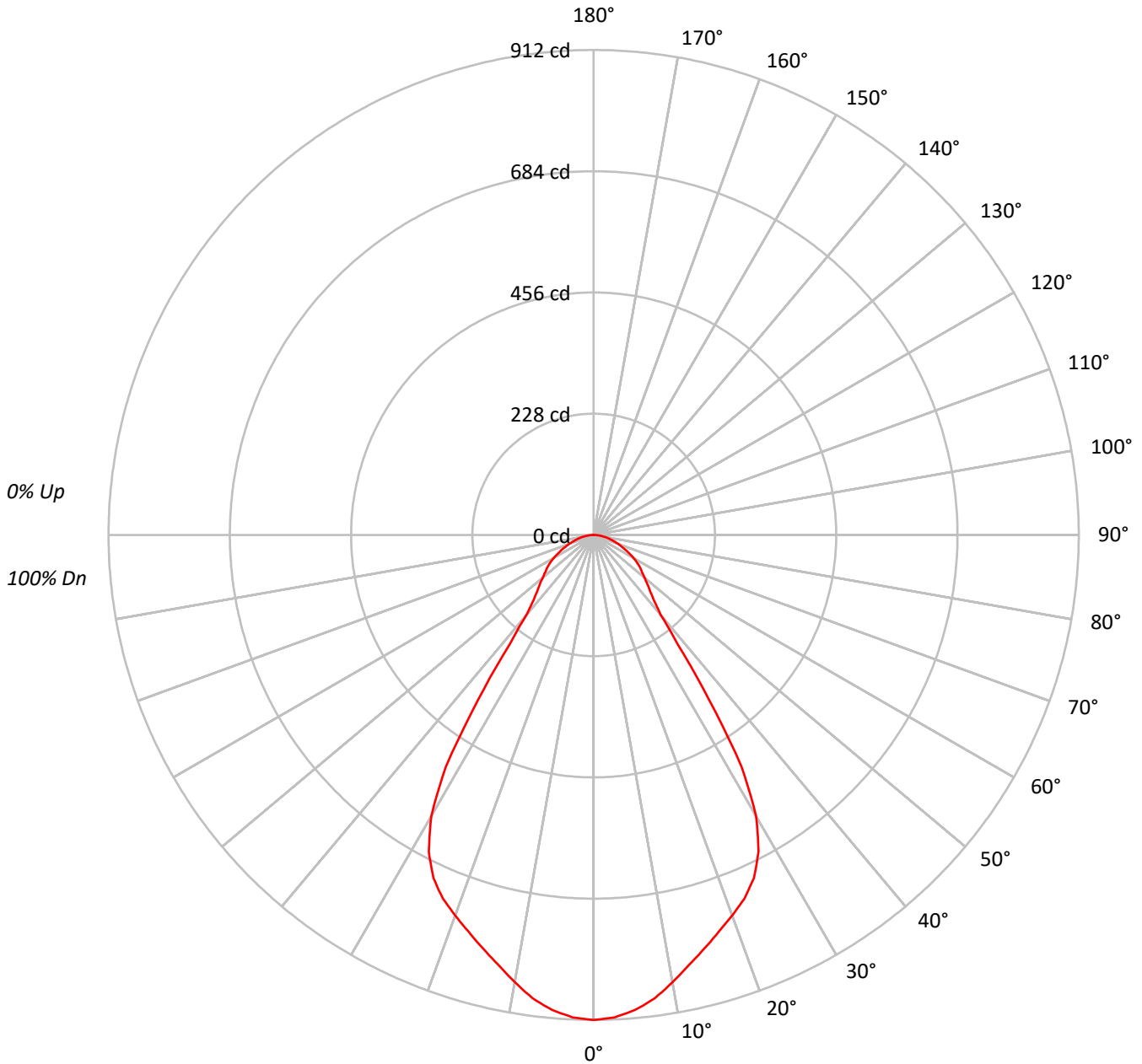
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

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

	0°
0°	28126
5°	27760
10°	26740
15°	25696
20°	24989
25°	24235
30°	21745
35°	14252
40°	7882
45°	6568
50°	5992
55°	5720
60°	5316
65°	4823
70°	4355
75°	3944
80°	3587
85°	3397



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	7.0
10°-20°	227.1	19.0
20°-30°	323.2	27.0
30°-40°	239.2	20.0
40°-50°	118.5	9.9
50°-60°	94.5	7.9
60°-70°	65.6	5.5
70°-80°	35.4	3.0
80°-90°	10.4	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°	634.5	53.0
0°-40°	873.7	72.9
0°-60°	1086.7	90.7
0°-90°	1198.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1198.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	912	
5°	897	84
15°	805	227
25°	712	323
35°	379	239
45°	151	118
55°	106	95
65°	66	66
75°	33	35
85°	10	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	912.1
2.5°	908.0
5°	896.8
7.5°	879.0
10°	854.0
12.5°	828.3
15°	804.9
17.5°	782.4
20°	761.5
22.5°	740.4
25°	712.3
27.5°	671.2
30°	610.7
32.5°	518.1
35°	378.6
37.5°	258.7
40°	195.8
42.5°	167.6
45°	150.6
47.5°	137.0
50°	124.9
52.5°	114.4
55°	106.4
57.5°	96.6
60°	86.2
62.5°	75.7
65°	66.1
67.5°	56.4
70°	48.3
72.5°	40.3
75°	33.1
77.5°	26.6
80°	20.2
82.5°	14.5
85°	9.6
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)