

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: P583616

Luminaire Tested: **HC807D010-HM80520840-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583616  
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: HC807D010-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: 1034.6 lumens  
Efficiency: N/A  
Efficacy: 129.3 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

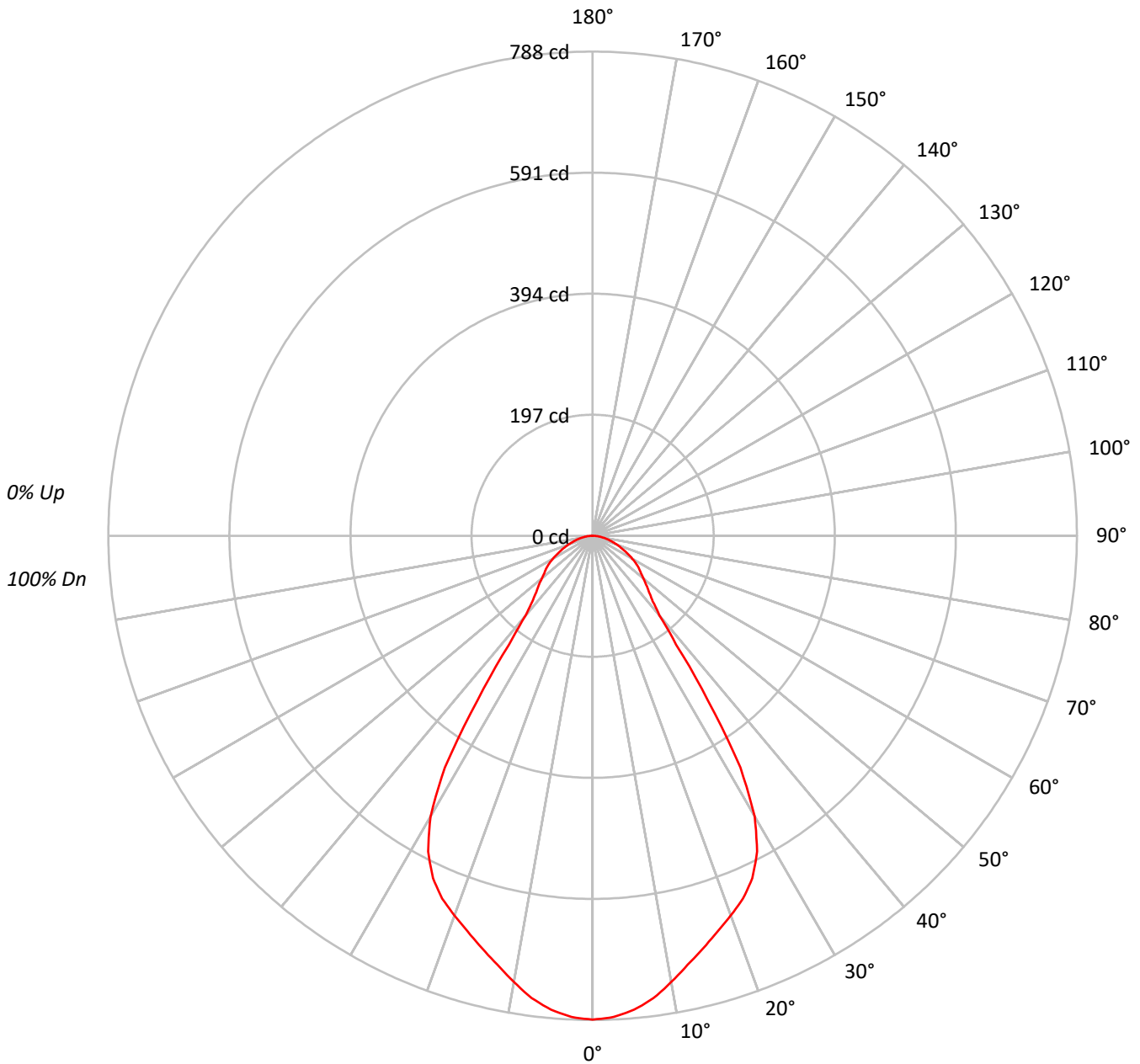
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	24284
5°	23971
10°	23089
15°	22187
20°	21576
25°	20921
30°	18779
35°	12310
40°	6807
45°	5674
50°	5171
55°	4935
60°	4588
65°	4159
70°	3760
75°	3407
80°	3090
85°	2972



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	7.0
10°-20°	196.1	19.0
20°-30°	279.1	27.0
30°-40°	206.5	20.0
40°-50°	102.3	9.9
50°-60°	81.6	7.9
60°-70°	56.7	5.5
70°-80°	30.5	3.0
80°-90°	9.0	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°	547.9	53.0
0°-40°	754.4	72.9
0°-60°	938.4	90.7
0°-90°	1034.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1034.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	788	
5°	774	73
15°	695	196
25°	615	279
35°	327	207
45°	130	102
55°	92	82
65°	57	57
75°	29	31
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	787.5
2.5°	784.0
5°	774.4
7.5°	759.1
10°	737.4
12.5°	715.2
15°	695.0
17.5°	675.5
20°	657.5
22.5°	639.3
25°	614.9
27.5°	579.6
30°	527.4
32.5°	447.3
35°	327.0
37.5°	223.3
40°	169.1
42.5°	144.7
45°	130.1
47.5°	118.3
50°	107.8
52.5°	98.8
55°	91.8
57.5°	83.5
60°	74.4
62.5°	65.4
65°	57.0
67.5°	48.8
70°	41.7
72.5°	34.8
75°	28.6
77.5°	22.9
80°	17.4
82.5°	12.5
85°	8.4
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)