

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: P583429

Luminaire Tested: **HC805D010-HM80520827-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583429  
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: HC805D010-HM80520827-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 705.4 lumens  
Efficiency: N/A  
Efficacy: 117.6 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

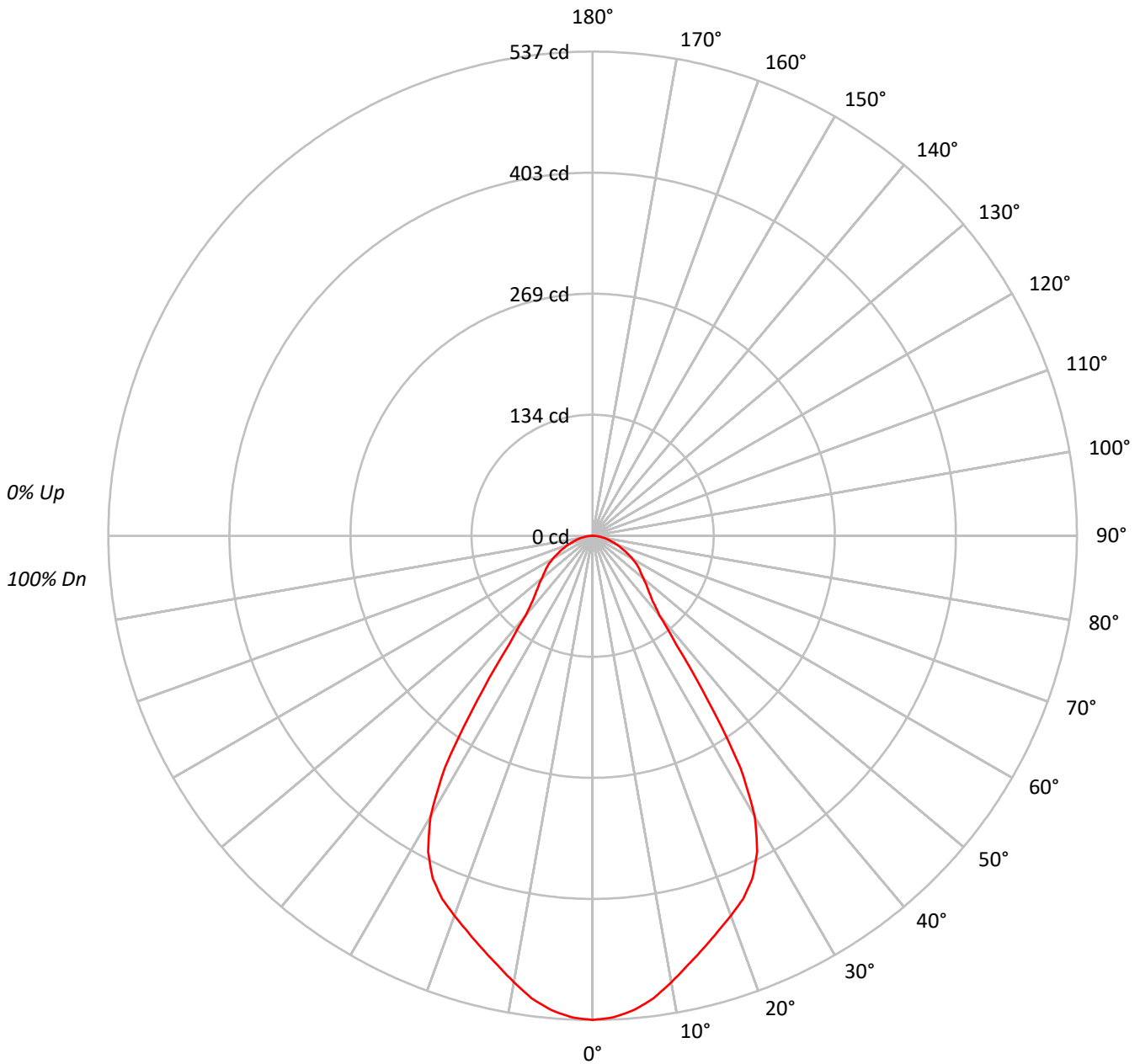
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16559
5°	16344
10°	15741
15°	15129
20°	14711
25°	14266
30°	12804
35°	8391
40°	4641
45°	3868
50°	3526
55°	3365
60°	3133
65°	2838
70°	2570
75°	2311
80°	2113
85°	2017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	7.0
10°-20°	133.7	19.0
20°-30°	190.3	27.0
30°-40°	140.8	20.0
40°-50°	69.7	9.9
50°-60°	55.7	7.9
60°-70°	38.6	5.5
70°-80°	20.8	3.0
80°-90°	6.1	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°	373.6	53.0
0°-40°	514.4	72.9
0°-60°	639.8	90.7
0°-90°	705.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	705.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	537	
5°	528	50
15°	474	134
25°	419	190
35°	223	141
45°	89	70
55°	63	56
65°	39	39
75°	19	21
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	537.0
2.5°	534.6
5°	528.0
7.5°	517.5
10°	502.7
12.5°	487.7
15°	473.9
17.5°	460.6
20°	448.3
22.5°	435.9
25°	419.3
27.5°	395.1
30°	359.6
32.5°	305.0
35°	222.9
37.5°	152.3
40°	115.3
42.5°	98.6
45°	88.7
47.5°	80.7
50°	73.5
52.5°	67.4
55°	62.6
57.5°	57.0
60°	50.8
62.5°	44.5
65°	38.9
67.5°	33.2
70°	28.5
72.5°	23.7
75°	19.4
77.5°	15.7
80°	11.9
82.5°	8.5
85°	5.7
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)