

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: P585247

Luminaire Tested: **HC880D010-HM86080840-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080840-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7801.1 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

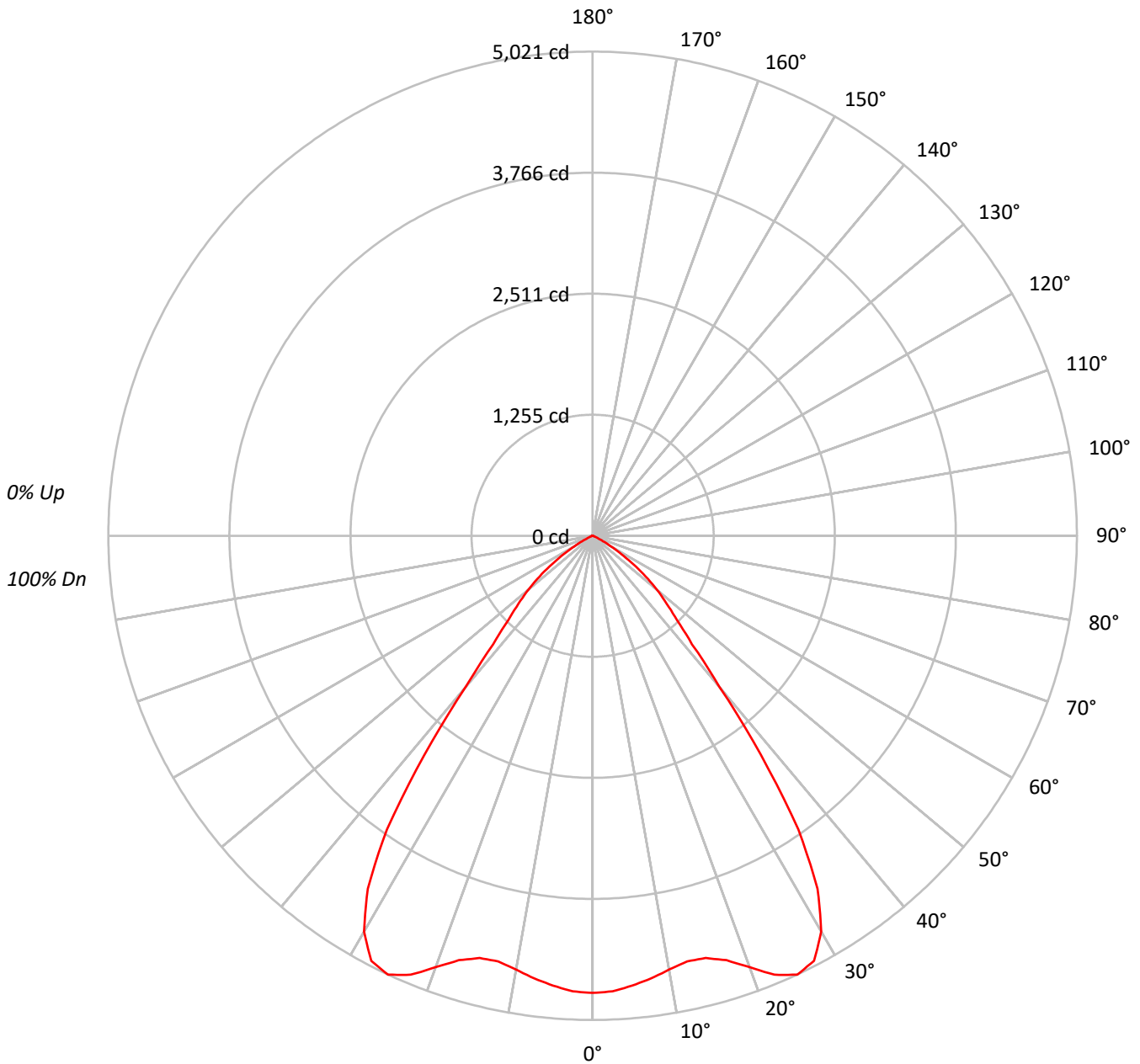
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
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	45	42	50	45	41	40			

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

	0°
0°	146161
5°	144946
10°	143033
15°	144667
20°	156227
25°	170845
30°	168772
35°	140003
40°	82400
45°	53831
50°	41732
55°	27725
60°	13494
65°	4181
70°	1406
75°	1251
80°	923
85°	1840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.5	5.7
10°-20°	1301.9	16.7
20°-30°	2276.3	29.2
30°-40°	2214.2	28.4
40°-50°	1007.0	12.9
50°-60°	466.9	6.0
60°-70°	78.3	1.0
70°-80°	9.6	0.1
80°-90°	3.5	0.0
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°	4021.6	51.6
0°-40°	6235.8	79.9
0°-60°	7709.7	98.8
0°-90°	7801.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7801.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4740	
5°	4683	443
15°	4532	1302
25°	5021	2276
35°	3719	2214
45°	1234	1007
55°	516	467
65°	57	78
75°	10	10
85°	5	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4739.9
2.5°	4729.5
5°	4682.6
7.5°	4630.6
10°	4568.0
12.5°	4521.2
15°	4531.6
17.5°	4615.0
20°	4760.8
22.5°	4927.5
25°	5021.3
27.5°	4969.2
30°	4739.9
32.5°	4338.9
35°	3719.1
37.5°	2864.8
40°	2047.0
42.5°	1526.2
45°	1234.4
47.5°	1041.8
50°	869.9
52.5°	692.7
55°	515.7
57.5°	354.2
60°	218.8
62.5°	119.9
65°	57.3
67.5°	26.0
70°	15.6
72.5°	10.5
75°	10.5
77.5°	5.2
80°	5.2
82.5°	5.2
85°	5.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)