

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: P585264

Luminaire Tested: **HC880D010-HM86080927-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585264  
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-HM86080927-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5433.9 lumens  
Efficiency: N/A  
Efficacy: 77.6 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

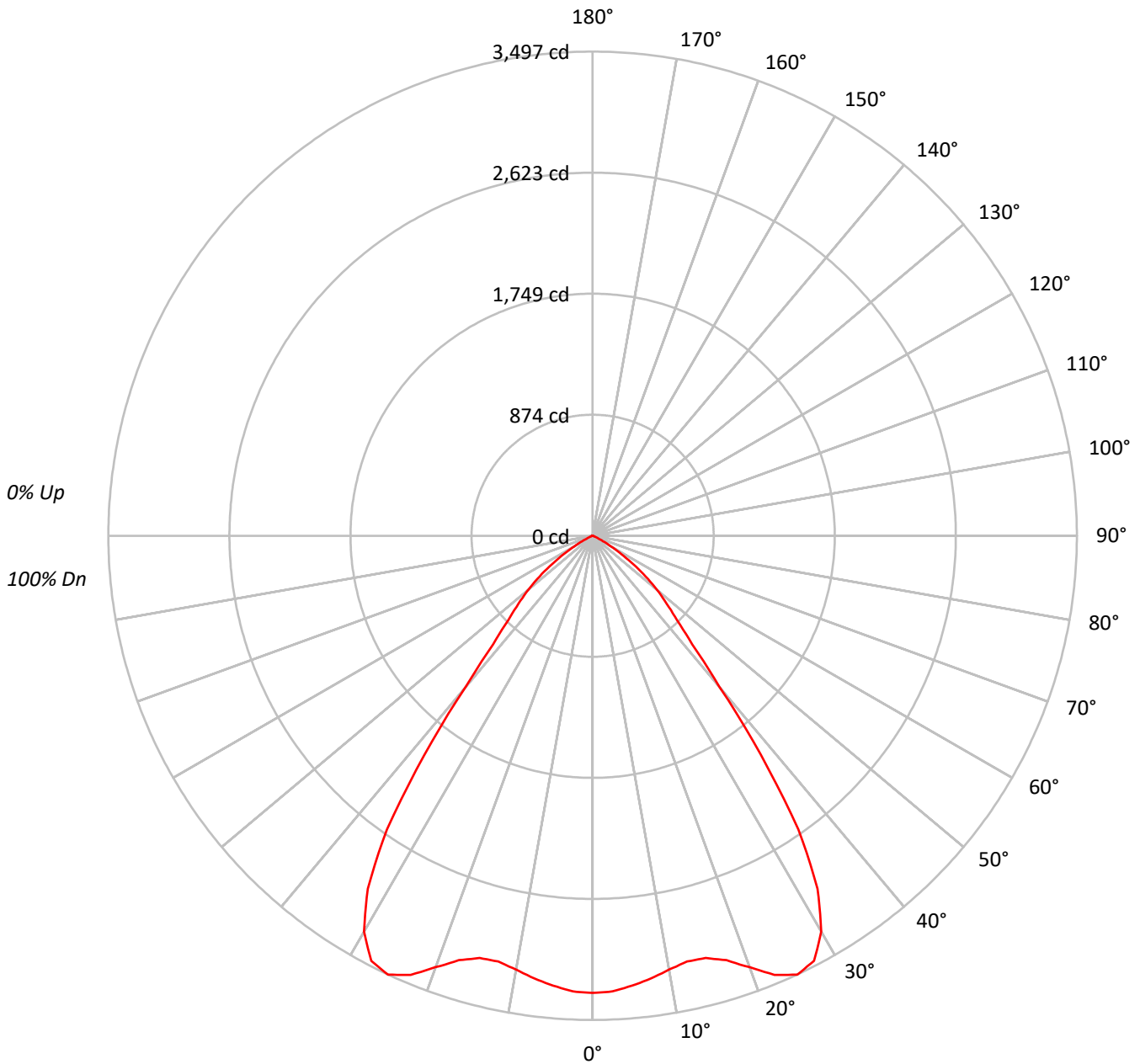
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				68
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62				62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
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	45	42	50	45	41	40				40

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

	0°
0°	101809
5°	100963
10°	99632
15°	100765
20°	108819
25°	118996
30°	117559
35°	97517
40°	57394
45°	37499
50°	29067
55°	19311
60°	9399
65°	2919
70°	983
75°	870
80°	657
85°	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.9	5.7
10°-20°	906.8	16.7
20°-30°	1585.5	29.2
30°-40°	1542.3	28.4
40°-50°	701.4	12.9
50°-60°	325.2	6.0
60°-70°	54.5	1.0
70°-80°	6.7	0.1
80°-90°	2.5	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°	2801.2	51.6
0°-40°	4343.5	79.9
0°-60°	5370.1	98.8
0°-90°	5433.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5433.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3302	
5°	3262	309
15°	3156	907
25°	3497	1585
35°	2590	1542
45°	860	701
55°	359	325
65°	40	55
75°	7	7
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3301.6
2.5°	3294.4
5°	3261.7
7.5°	3225.4
10°	3181.9
12.5°	3149.2
15°	3156.4
17.5°	3214.5
20°	3316.1
22.5°	3432.2
25°	3497.4
27.5°	3461.2
30°	3301.6
32.5°	3022.2
35°	2590.5
37.5°	1995.5
40°	1425.8
42.5°	1063.1
45°	859.9
47.5°	725.6
50°	605.9
52.5°	482.5
55°	359.2
57.5°	246.7
60°	152.4
62.5°	83.5
65°	40.0
67.5°	18.2
70°	10.9
72.5°	7.3
75°	7.3
77.5°	3.7
80°	3.7
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)