

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: P585199

Luminaire Tested: **HC880D010-HM86080827-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080827-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6396.9 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

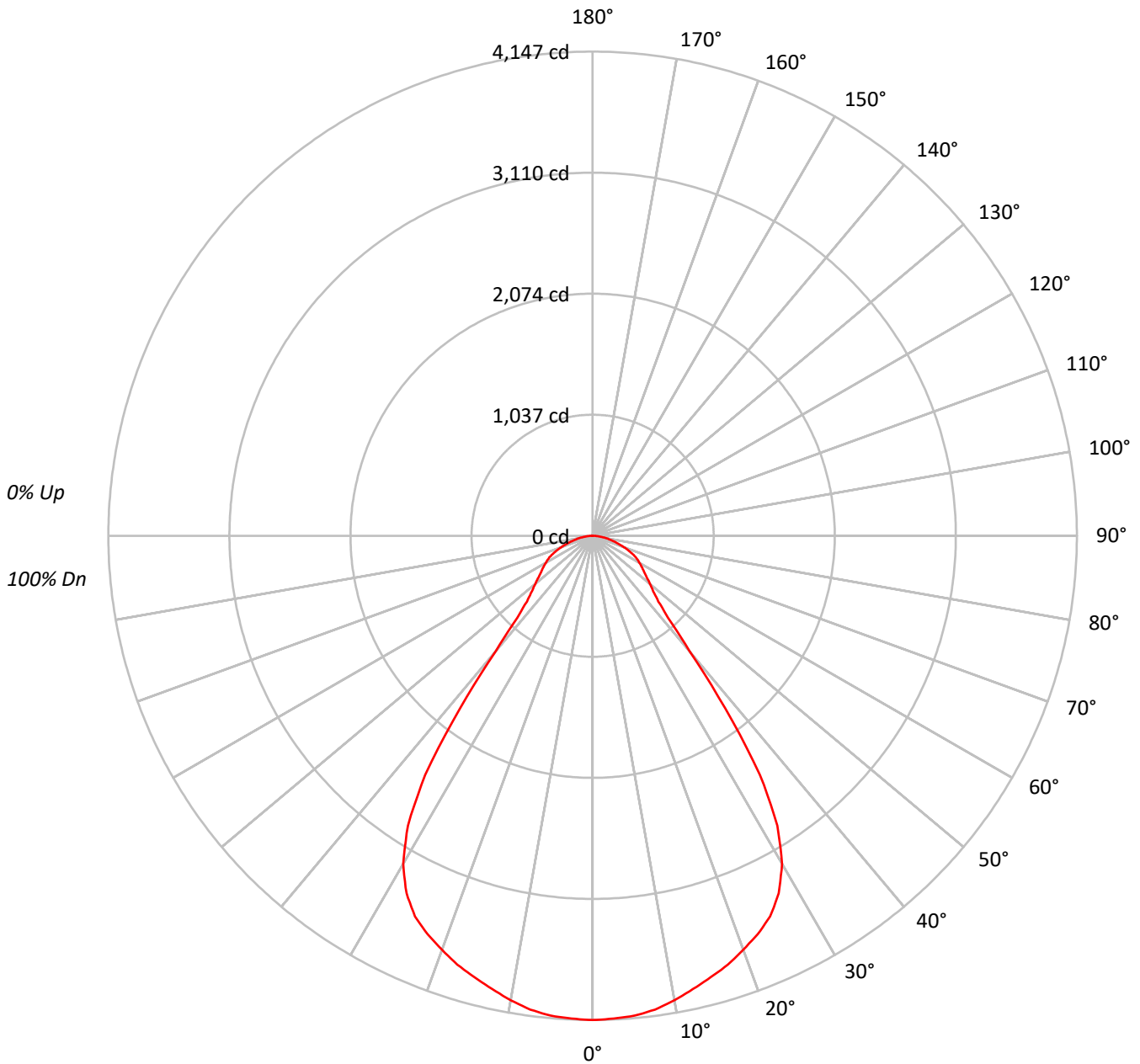
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52																			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																			

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

	0°
0°	127891
5°	127732
10°	126469
15°	124957
20°	123799
25°	122409
30°	115497
35°	94050
40°	51964
45°	34682
50°	30760
55°	28881
60°	28505
65°	28259
70°	25524
75°	22816
80°	19978
85°	17655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.1	6.1
10°-20°	1105.2	17.3
20°-30°	1642.2	25.7
30°-40°	1478.9	23.1
40°-50°	655.6	10.2
50°-60°	485.6	7.6
60°-70°	377.6	5.9
70°-80°	204.7	3.2
80°-90°	56.1	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°	3138.5	49.1
0°-40°	4617.4	72.2
0°-60°	5758.6	90.0
0°-90°	6396.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6396.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4147	
5°	4126	391
15°	3914	1105
25°	3598	1642
35°	2498	1479
45°	795	656
55°	537	486
65°	387	378
75°	192	205
85°	50	56
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4147.4
2.5°	4139.0
5°	4126.5
7.5°	4093.3
10°	4039.0
12.5°	3976.6
15°	3914.2
17.5°	3851.6
20°	3772.6
22.5°	3693.5
25°	3597.7
27.5°	3451.9
30°	3243.7
32.5°	2944.0
35°	2498.4
37.5°	1865.4
40°	1290.9
42.5°	953.6
45°	795.3
47.5°	703.8
50°	641.2
52.5°	583.0
55°	537.2
57.5°	499.7
60°	462.2
62.5°	428.9
65°	387.3
67.5°	337.3
70°	283.1
72.5°	237.3
75°	191.5
77.5°	149.9
80°	112.5
82.5°	79.1
85°	49.9
87.5°	20.8
90°	0.0



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— 0°-180°







(END OF REPORT)