

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: P585234

Luminaire Tested: **HC880D010-HM86080835-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080835-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8190.0 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

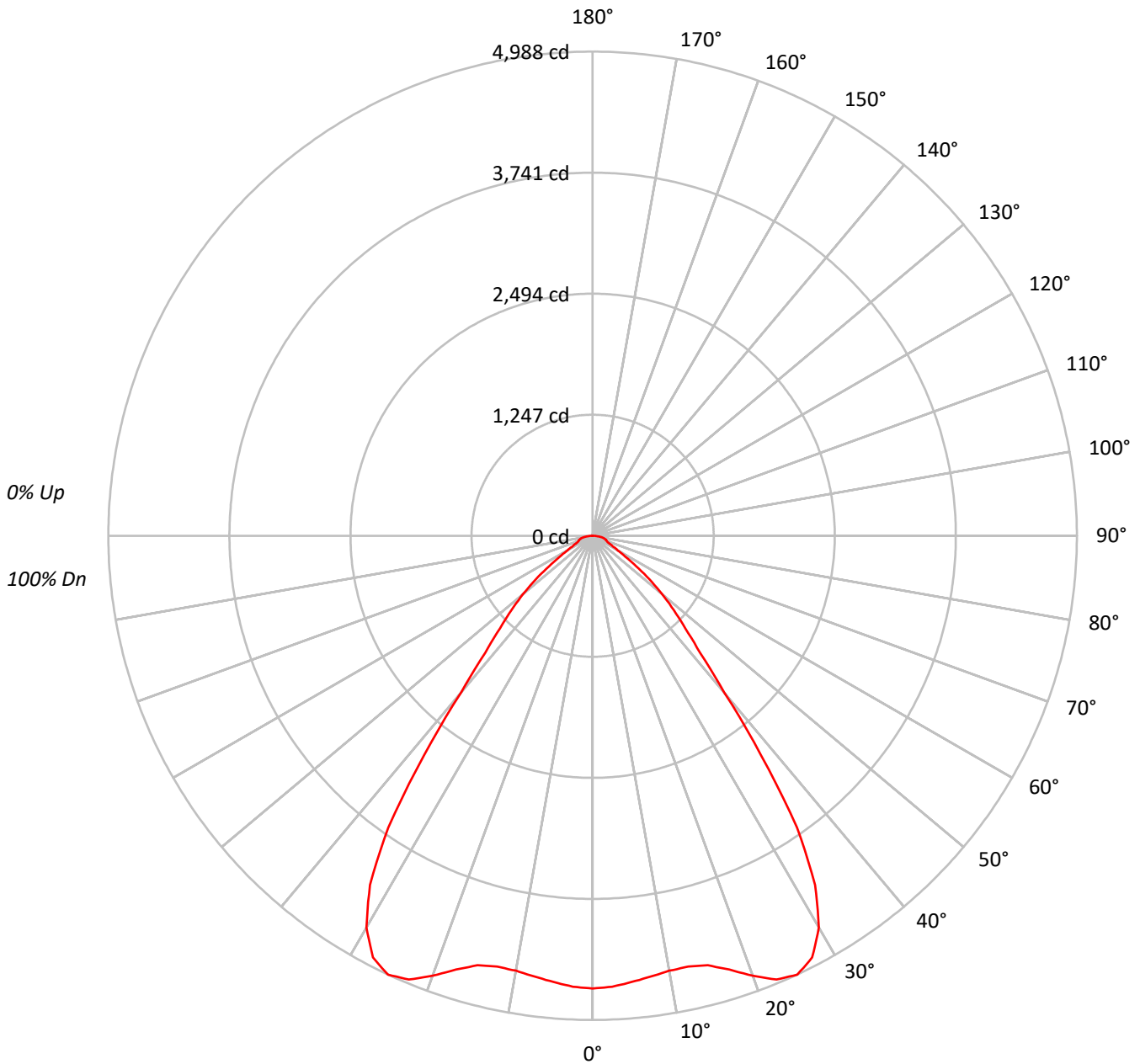
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

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

	0°
0°	143839
5°	142844
10°	142476
15°	146212
20°	158291
25°	169702
30°	165913
35°	138154
40°	84875
45°	58768
50°	44850
55°	29413
60°	18397
65°	13783
70°	13903
75°	15989
80°	17651
85°	15815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.5	5.4
10°-20°	1314.8	16.1
20°-30°	2263.4	27.6
30°-40°	2192.8	26.8
40°-50°	1080.1	13.2
50°-60°	509.7	6.2
60°-70°	200.9	2.5
70°-80°	138.5	1.7
80°-90°	51.4	0.6
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°	4016.6	49.0
0°-40°	6209.4	75.8
0°-60°	7799.2	95.2
0°-90°	8190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8190.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4665	
5°	4615	438
15°	4580	1315
25°	4988	2263
35°	3670	2193
45°	1348	1080
55°	547	510
65°	189	201
75°	134	139
85°	45	51
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4664.6
2.5°	4649.6
5°	4614.7
7.5°	4580.0
10°	4550.2
12.5°	4545.2
15°	4580.0
17.5°	4684.4
20°	4823.7
22.5°	4947.9
25°	4987.7
27.5°	4898.2
30°	4659.6
32.5°	4266.7
35°	3670.0
37.5°	2849.4
40°	2108.5
42.5°	1636.1
45°	1347.6
47.5°	1133.8
50°	934.9
52.5°	736.0
55°	547.1
57.5°	397.8
60°	298.3
62.5°	233.8
65°	188.9
67.5°	164.1
70°	154.2
72.5°	144.2
75°	134.2
77.5°	119.4
80°	99.4
82.5°	74.6
85°	44.7
87.5°	19.9
90°	0.0



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— 0°-180°







(END OF REPORT)