

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: P585240

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080840-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7712.5 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

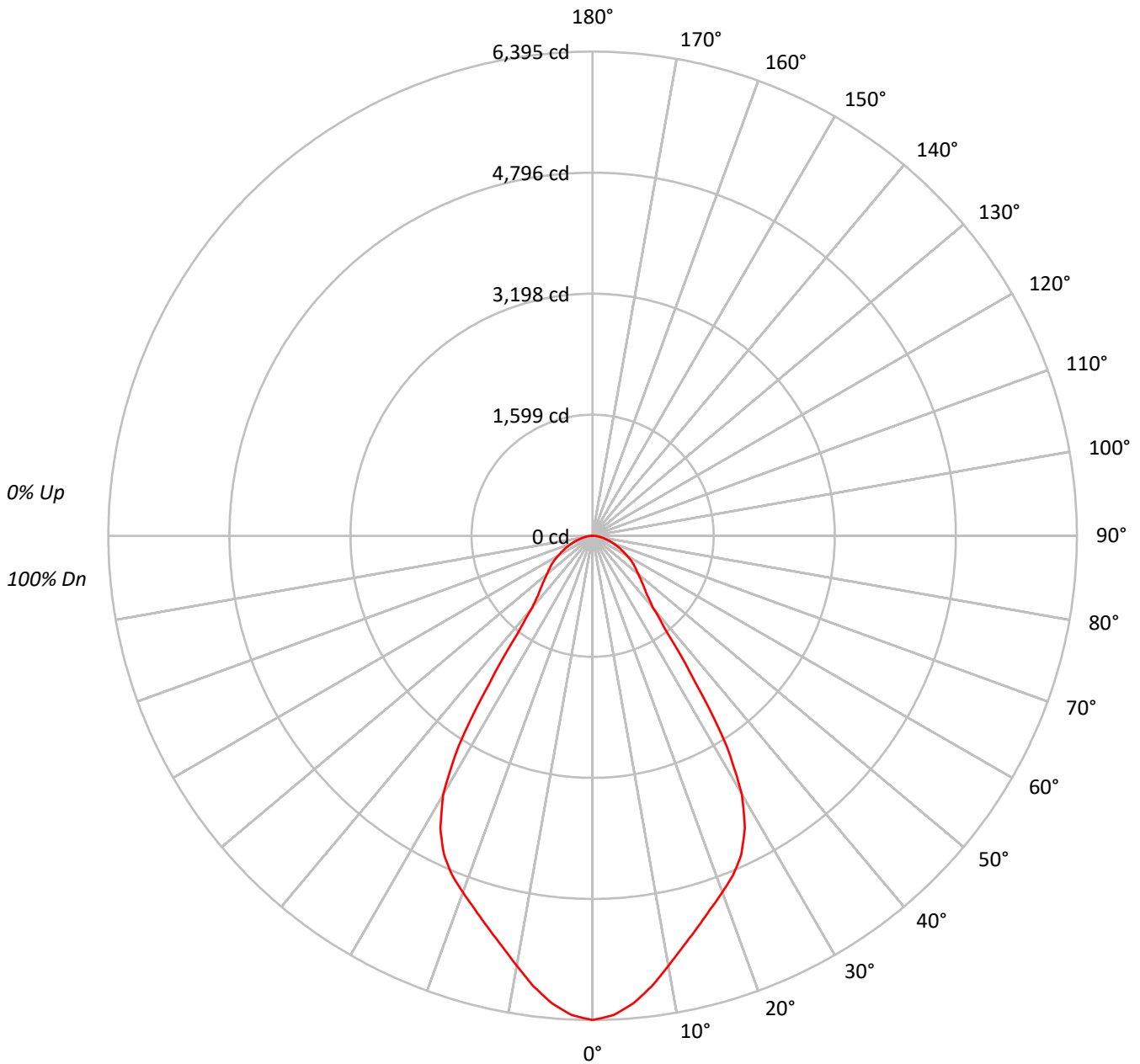
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
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	46	42	50	45	42	40			

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

	0°
0°	197211
5°	191835
10°	180520
15°	170912
20°	164408
25°	158056
30°	140376
35°	89397
40°	49895
45°	41786
50°	37726
55°	35558
60°	32440
65°	29259
70°	25822
75°	22959
80°	20351
85°	18433



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.8	7.5
10°-20°	1509.9	19.6
20°-30°	2106.4	27.3
30°-40°	1515.7	19.7
40°-50°	751.1	9.7
50°-60°	587.7	7.6
60°-70°	397.8	5.2
70°-80°	206.6	2.7
80°-90°	59.5	0.8
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°	4194.0	54.4
0°-40°	5709.7	74.0
0°-60°	7048.5	91.4
0°-90°	7712.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7712.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6395	
5°	6197	578
15°	5354	1510
25°	4645	2106
35°	2375	1516
45°	958	751
55°	661	588
65°	401	398
75°	193	207
85°	52	60
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6395.4
2.5°	6338.1
5°	6197.4
7.5°	5999.6
10°	5765.2
12.5°	5546.4
15°	5353.7
17.5°	5171.4
20°	5010.1
22.5°	4848.6
25°	4645.4
27.5°	4353.9
30°	3942.4
32.5°	3296.6
35°	2374.8
37.5°	1619.7
40°	1239.5
42.5°	1067.6
45°	958.2
47.5°	864.5
50°	786.4
52.5°	718.8
55°	661.4
57.5°	593.7
60°	526.0
62.5°	458.2
65°	401.0
67.5°	343.7
70°	286.4
72.5°	239.6
75°	192.7
77.5°	151.0
80°	114.6
82.5°	83.3
85°	52.1
87.5°	26.0
90°	0.0



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— 0°-180°







(END OF REPORT)