

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: P585206

Luminaire Tested: **HC880D010-HM86080830-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585206  
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-HM86080830-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6123.2 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

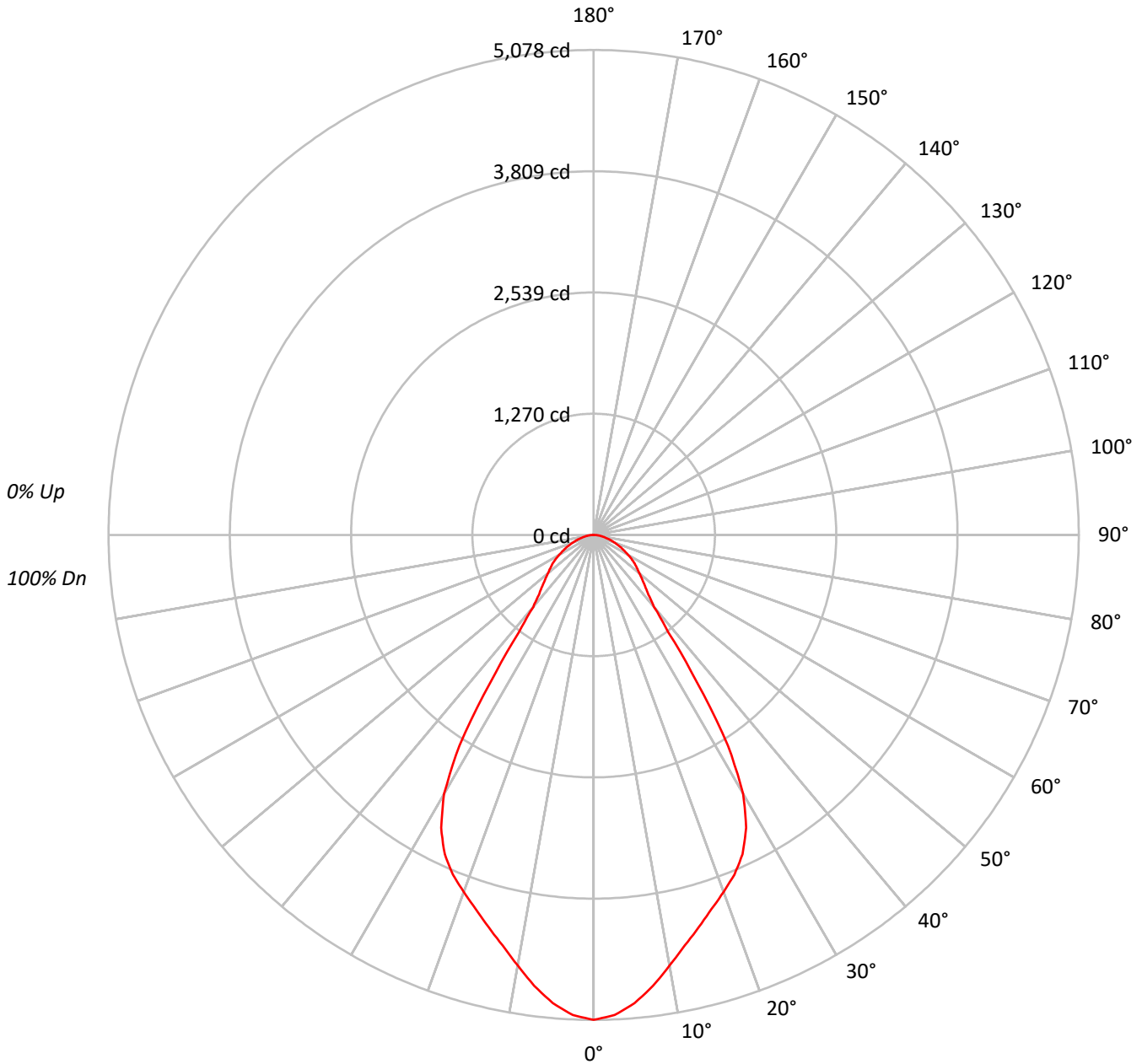
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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°	156571
5°	152303
10°	143321
15°	135697
20°	130529
25°	125488
30°	111449
35°	70974
40°	39610
45°	33178
50°	29949
55°	28230
60°	25754
65°	23232
70°	20511
75°	18229
80°	16160
85°	14648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.7	7.5
10°-20°	1198.8	19.6
20°-30°	1672.3	27.3
30°-40°	1203.3	19.7
40°-50°	596.3	9.7
50°-60°	466.6	7.6
60°-70°	315.9	5.2
70°-80°	164.1	2.7
80°-90°	47.3	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°	3329.8	54.4
0°-40°	4533.1	74.0
0°-60°	5596.0	91.4
0°-90°	6123.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6123.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5078	
5°	4920	459
15°	4251	1199
25°	3688	1672
35°	1885	1203
45°	761	596
55°	525	467
65°	318	316
75°	153	164
85°	41	47
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5077.5
2.5°	5032.0
5°	4920.3
7.5°	4763.3
10°	4577.2
12.5°	4403.5
15°	4250.6
17.5°	4105.9
20°	3977.7
22.5°	3849.5
25°	3688.2
27.5°	3456.7
30°	3130.0
32.5°	2617.3
35°	1885.4
37.5°	1285.9
40°	984.0
42.5°	847.6
45°	760.8
47.5°	686.4
50°	624.3
52.5°	570.6
55°	525.1
57.5°	471.3
60°	417.6
62.5°	363.8
65°	318.4
67.5°	272.9
70°	227.5
72.5°	190.2
75°	153.0
77.5°	119.9
80°	91.0
82.5°	66.1
85°	41.4
87.5°	20.7
90°	0.0



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— 0°-180°







(END OF REPORT)