

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: P593917

Luminaire Tested: **HC880D010-HM86080950-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC880D010-HM86080950-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6767.6 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

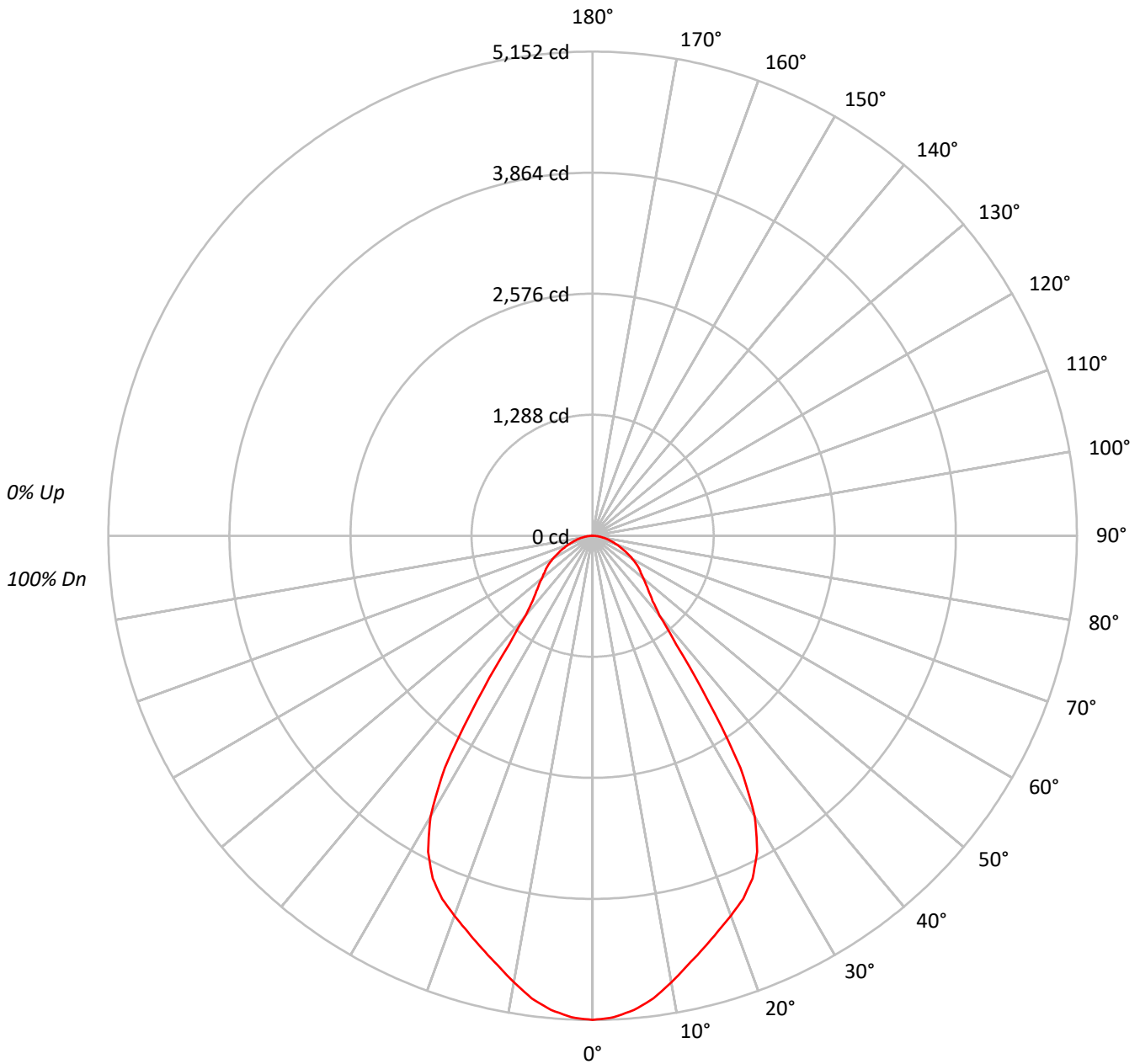
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100	
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53				53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49				49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				39

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

	0°
0°	158859
5°	156786
10°	151049
15°	145140
20°	141126
25°	136879
30°	122829
35°	80517
40°	44517
45°	37111
50°	33840
55°	32295
60°	30028
65°	27231
70°	24623
75°	22232
80°	20209
85°	19318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.9	7.0
10°-20°	1282.7	19.0
20°-30°	1825.4	27.0
30°-40°	1351.0	20.0
40°-50°	669.2	9.9
50°-60°	534.1	7.9
60°-70°	370.7	5.5
70°-80°	199.8	3.0
80°-90°	58.8	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°	3584.0	53.0
0°-40°	4935.0	72.9
0°-60°	6138.3	90.7
0°-90°	6767.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6767.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5152	
5°	5065	476
15°	4546	1283
25°	4023	1825
35°	2139	1351
45°	851	669
55°	601	534
65°	373	371
75°	187	200
85°	55	59
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5151.7
2.5°	5128.9
5°	5065.1
7.5°	4965.0
10°	4824.0
12.5°	4678.4
15°	4546.4
17.5°	4418.9
20°	4300.6
22.5°	4182.3
25°	4023.0
27.5°	3790.9
30°	3449.6
32.5°	2926.2
35°	2138.9
37.5°	1460.8
40°	1105.9
42.5°	946.6
45°	851.0
47.5°	773.7
50°	705.4
52.5°	646.2
55°	600.7
57.5°	546.1
60°	486.9
62.5°	427.8
65°	373.2
67.5°	318.5
70°	273.1
72.5°	227.6
75°	186.6
77.5°	150.2
80°	113.8
82.5°	81.9
85°	54.6
87.5°	22.7
90°	0.0



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— 0°-180°







(END OF REPORT)