

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: P593918

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593918  
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-HM86080950-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6990.6 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

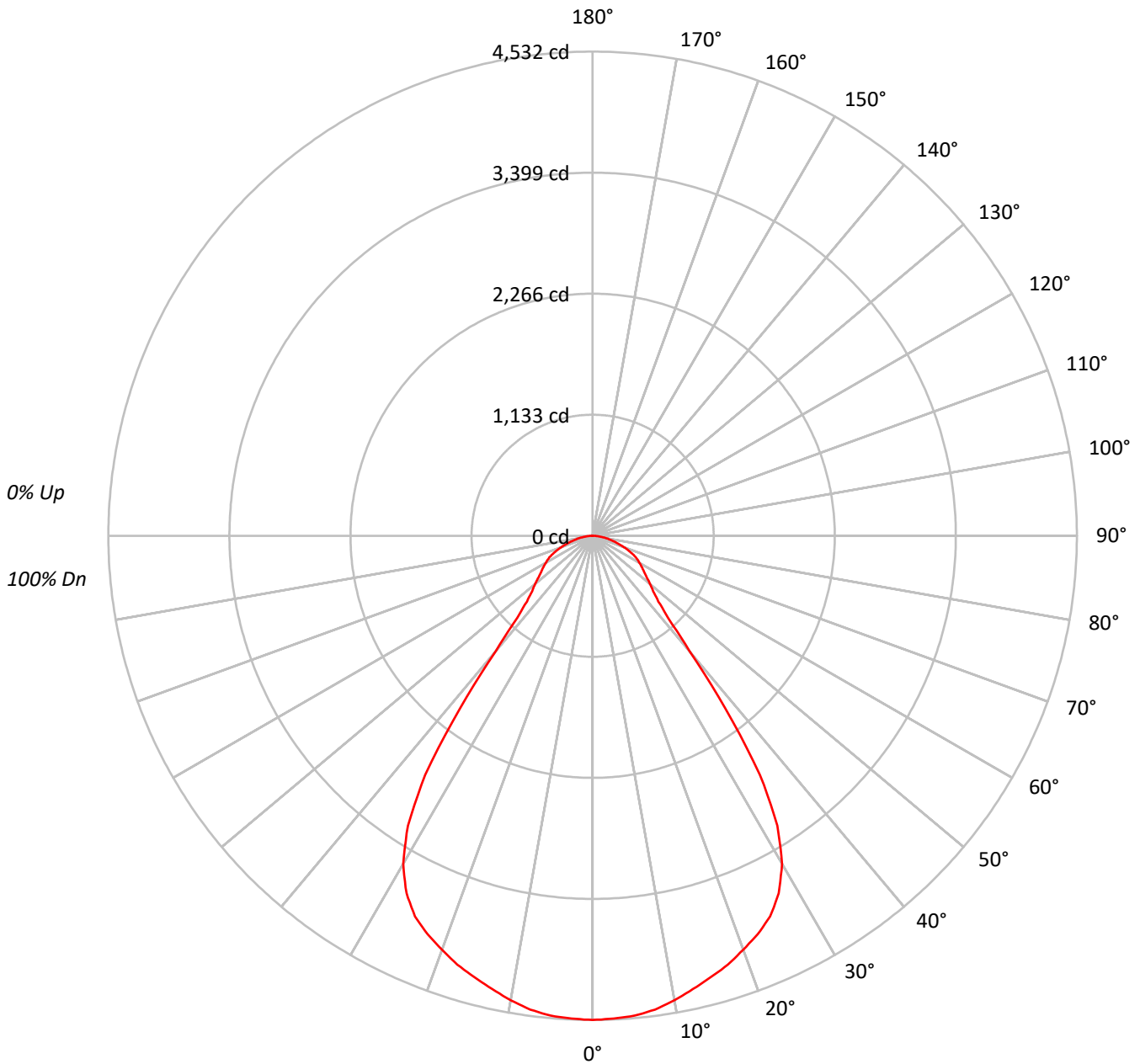
Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	139756
5°	139588
10°	138208
15°	136552
20°	135288
25°	133773
30°	126219
35°	102780
40°	56782
45°	37905
50°	33619
55°	31558
60°	31151
65°	30879
70°	27895
75°	24936
80°	21807
85°	19318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.4	6.1
10°-20°	1207.8	17.3
20°-30°	1794.6	25.7
30°-40°	1616.2	23.1
40°-50°	716.5	10.2
50°-60°	530.6	7.6
60°-70°	412.6	5.9
70°-80°	223.7	3.2
80°-90°	61.2	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°	3429.8	49.1
0°-40°	5046.0	72.2
0°-60°	6293.1	90.0
0°-90°	6990.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6990.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4532	
5°	4510	427
15°	4277	1208
25°	3932	1795
35°	2730	1616
45°	869	716
55°	587	531
65°	423	413
75°	209	224
85°	55	61
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4532.2
2.5°	4523.2
5°	4509.5
7.5°	4473.1
10°	4413.9
12.5°	4345.7
15°	4277.4
17.5°	4209.2
20°	4122.7
22.5°	4036.3
25°	3931.7
27.5°	3772.3
30°	3544.8
32.5°	3217.2
35°	2730.3
37.5°	2038.7
40°	1410.6
42.5°	1042.0
45°	869.2
47.5°	769.0
50°	700.8
52.5°	637.1
55°	587.0
57.5°	546.1
60°	505.1
62.5°	468.7
65°	423.2
67.5°	368.6
70°	309.4
72.5°	259.3
75°	209.3
77.5°	163.8
80°	122.8
82.5°	86.4
85°	54.6
87.5°	22.7
90°	0.0



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— 0°-180°







(END OF REPORT)