

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: P583775

Luminaire Tested: **HC810D010-HM80520927-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583775  
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: HC810D010-HM80520927-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 971.2 lumens  
Efficiency: N/A  
Efficacy: 98.1 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

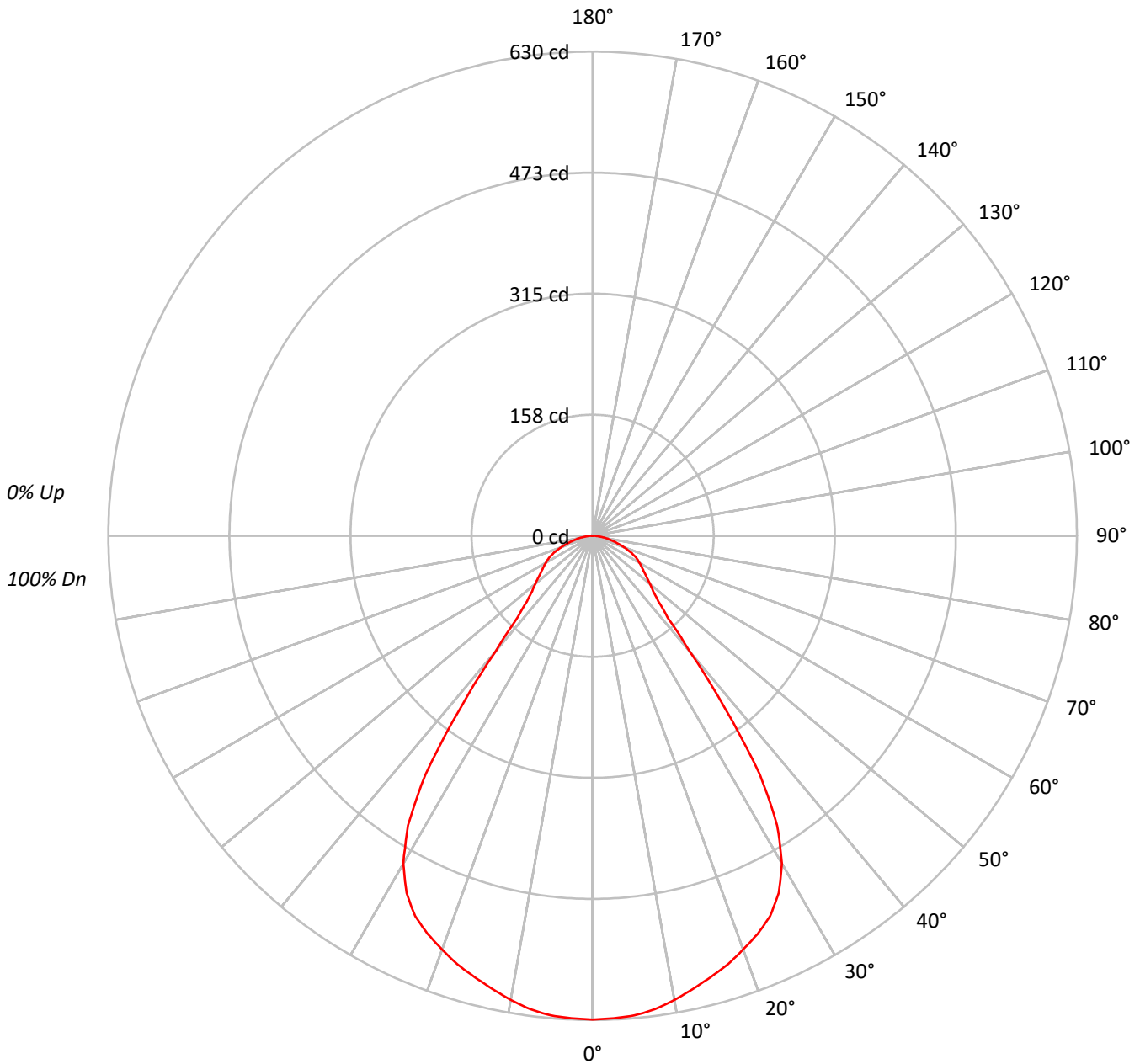
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	19415
5°	19393
10°	19204
15°	18972
20°	18797
25°	18584
30°	17536
35°	14282
40°	7886
45°	5268
50°	4673
55°	4382
60°	4329
65°	4290
70°	3877
75°	3467
80°	3037
85°	2689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	6.1
10°-20°	167.8	17.3
20°-30°	249.3	25.7
30°-40°	224.5	23.1
40°-50°	99.5	10.2
50°-60°	73.7	7.6
60°-70°	57.3	5.9
70°-80°	31.1	3.2
80°-90°	8.5	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°	476.5	49.1
0°-40°	701.0	72.2
0°-60°	874.3	90.0
0°-90°	971.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	630	
5°	626	59
15°	594	168
25°	546	249
35°	379	225
45°	121	100
55°	82	74
65°	59	57
75°	29	31
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	629.6
2.5°	628.4
5°	626.5
7.5°	621.4
10°	613.3
12.5°	603.8
15°	594.3
17.5°	584.8
20°	572.8
22.5°	560.7
25°	546.2
27.5°	524.1
30°	492.5
32.5°	446.9
35°	379.4
37.5°	283.2
40°	195.9
42.5°	144.7
45°	120.8
47.5°	106.9
50°	97.4
52.5°	88.5
55°	81.5
57.5°	75.8
60°	70.2
62.5°	65.1
65°	58.8
67.5°	51.2
70°	43.0
72.5°	36.1
75°	29.1
77.5°	22.7
80°	17.1
82.5°	12.0
85°	7.6
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)