

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: P583826

Luminaire Tested: **HC810D010-HM80520940-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583826  
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-HM80520940-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1169.6 lumens  
Efficiency: N/A  
Efficacy: 118.1 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

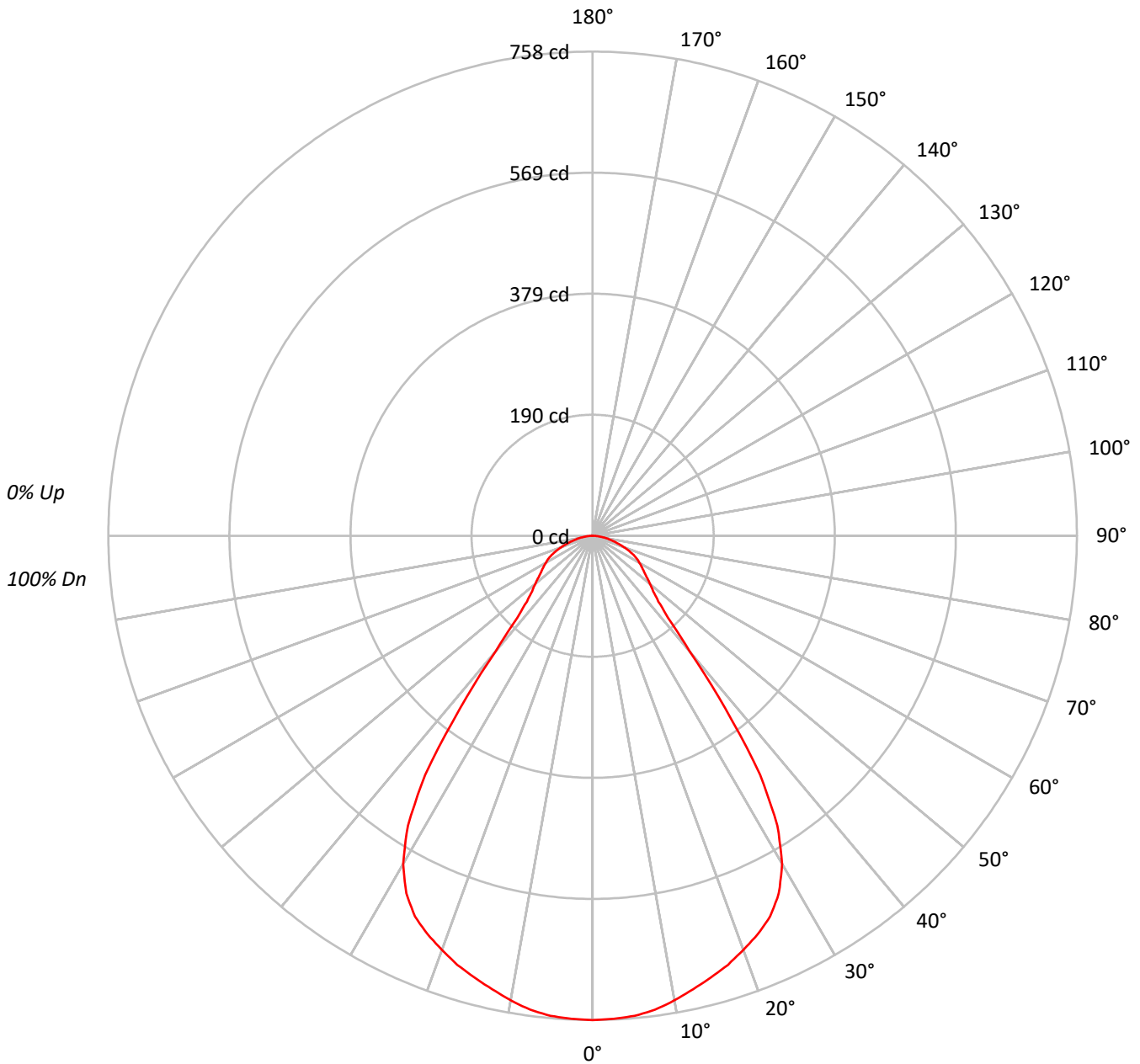
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	23383
5°	23355
10°	23124
15°	22848
20°	22633
25°	22378
30°	21118
35°	17196
40°	9500
45°	6341
50°	5622
55°	5279
60°	5211
65°	5166
70°	4670
75°	4170
80°	3658
85°	3220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	6.1
10°-20°	202.1	17.3
20°-30°	300.2	25.7
30°-40°	270.4	23.1
40°-50°	119.8	10.2
50°-60°	88.8	7.6
60°-70°	69.0	5.9
70°-80°	37.4	3.2
80°-90°	10.2	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°	573.8	49.1
0°-40°	844.2	72.2
0°-60°	1052.9	90.0
0°-90°	1169.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	758	
5°	754	72
15°	716	202
25°	658	300
35°	457	270
45°	145	120
55°	98	89
65°	71	69
75°	35	37
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	758.3
2.5°	756.8
5°	754.5
7.5°	748.4
10°	738.5
12.5°	727.1
15°	715.7
17.5°	704.3
20°	689.7
22.5°	675.3
25°	657.7
27.5°	631.2
30°	593.1
32.5°	538.3
35°	456.8
37.5°	341.1
40°	236.0
42.5°	174.3
45°	145.4
47.5°	128.6
50°	117.2
52.5°	106.6
55°	98.2
57.5°	91.4
60°	84.5
62.5°	78.4
65°	70.8
67.5°	61.7
70°	51.8
72.5°	43.4
75°	35.0
77.5°	27.4
80°	20.6
82.5°	14.4
85°	9.1
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)