

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: P593527

Luminaire Tested: **HC810D010-HM80520850-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593527  
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-HM80520850-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1329.7 lumens  
Efficiency: N/A  
Efficacy: 134.3 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

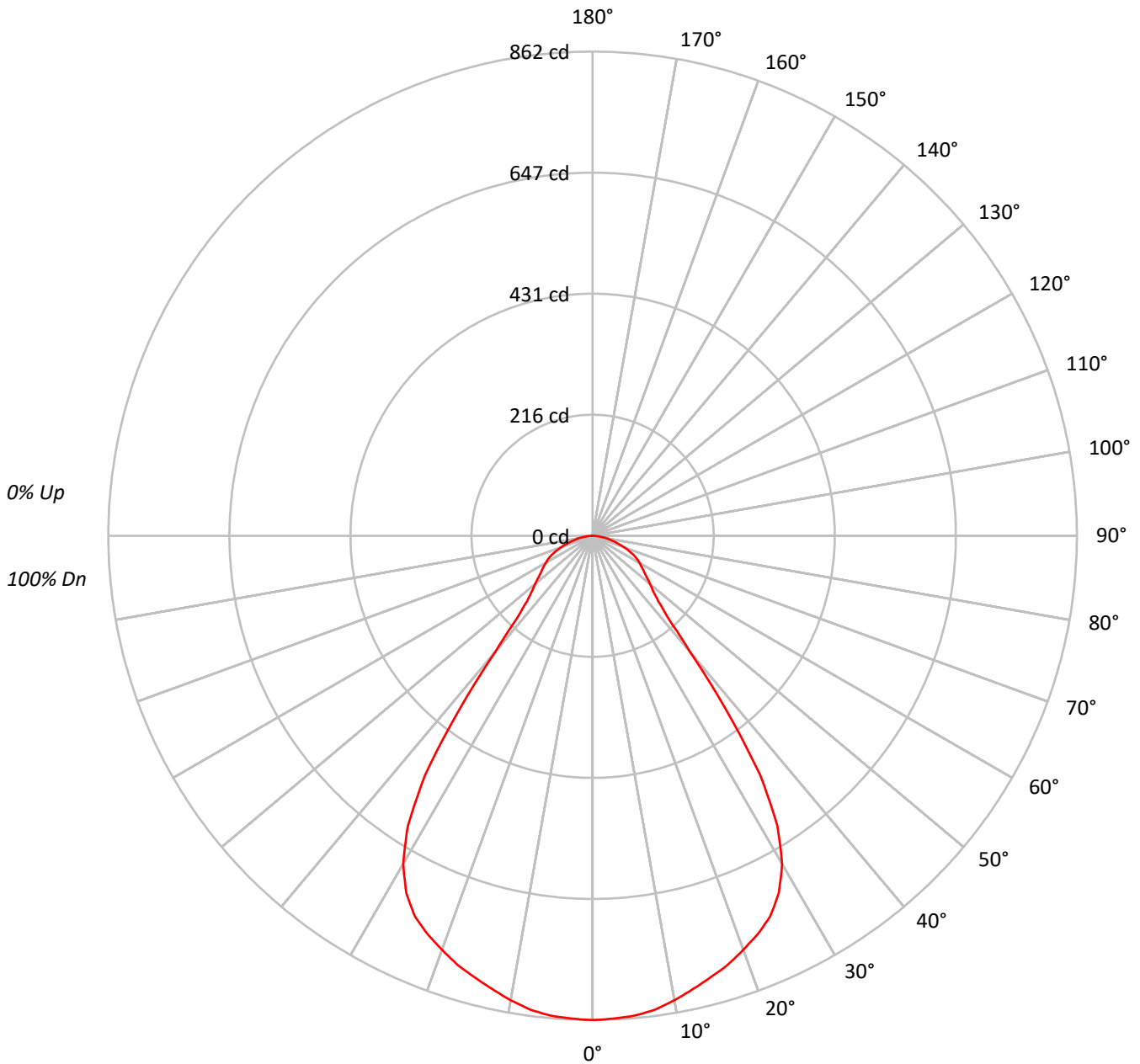
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	26584
5°	26549
10°	26290
15°	25973
20°	25734
25°	25447
30°	24010
35°	19552
40°	10800
45°	7209
50°	6395
55°	6005
60°	5921
65°	5874
70°	5310
75°	4742
80°	4138
85°	3644



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.3	6.1
10°-20°	229.7	17.3
20°-30°	341.4	25.7
30°-40°	307.4	23.1
40°-50°	136.3	10.2
50°-60°	100.9	7.6
60°-70°	78.5	5.9
70°-80°	42.5	3.2
80°-90°	11.6	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°	652.4	49.1
0°-40°	959.8	72.2
0°-60°	1197.1	90.0
0°-90°	1329.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1329.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	862	
5°	858	81
15°	814	230
25°	748	341
35°	519	307
45°	165	136
55°	112	101
65°	80	78
75°	40	43
85°	10	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	862.1
2.5°	860.4
5°	857.7
7.5°	850.9
10°	839.6
12.5°	826.6
15°	813.6
17.5°	800.7
20°	784.2
22.5°	767.7
25°	747.9
27.5°	717.6
30°	674.3
32.5°	611.9
35°	519.4
37.5°	387.8
40°	268.3
42.5°	198.2
45°	165.3
47.5°	146.3
50°	133.3
52.5°	121.2
55°	111.7
57.5°	103.9
60°	96.0
62.5°	89.2
65°	80.5
67.5°	70.1
70°	58.9
72.5°	49.3
75°	39.8
77.5°	31.1
80°	23.3
82.5°	16.5
85°	10.3
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)