

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: P583808

Luminaire Tested: **HC810D010-HM80520935-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC810D010-HM80520935-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1176.5 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

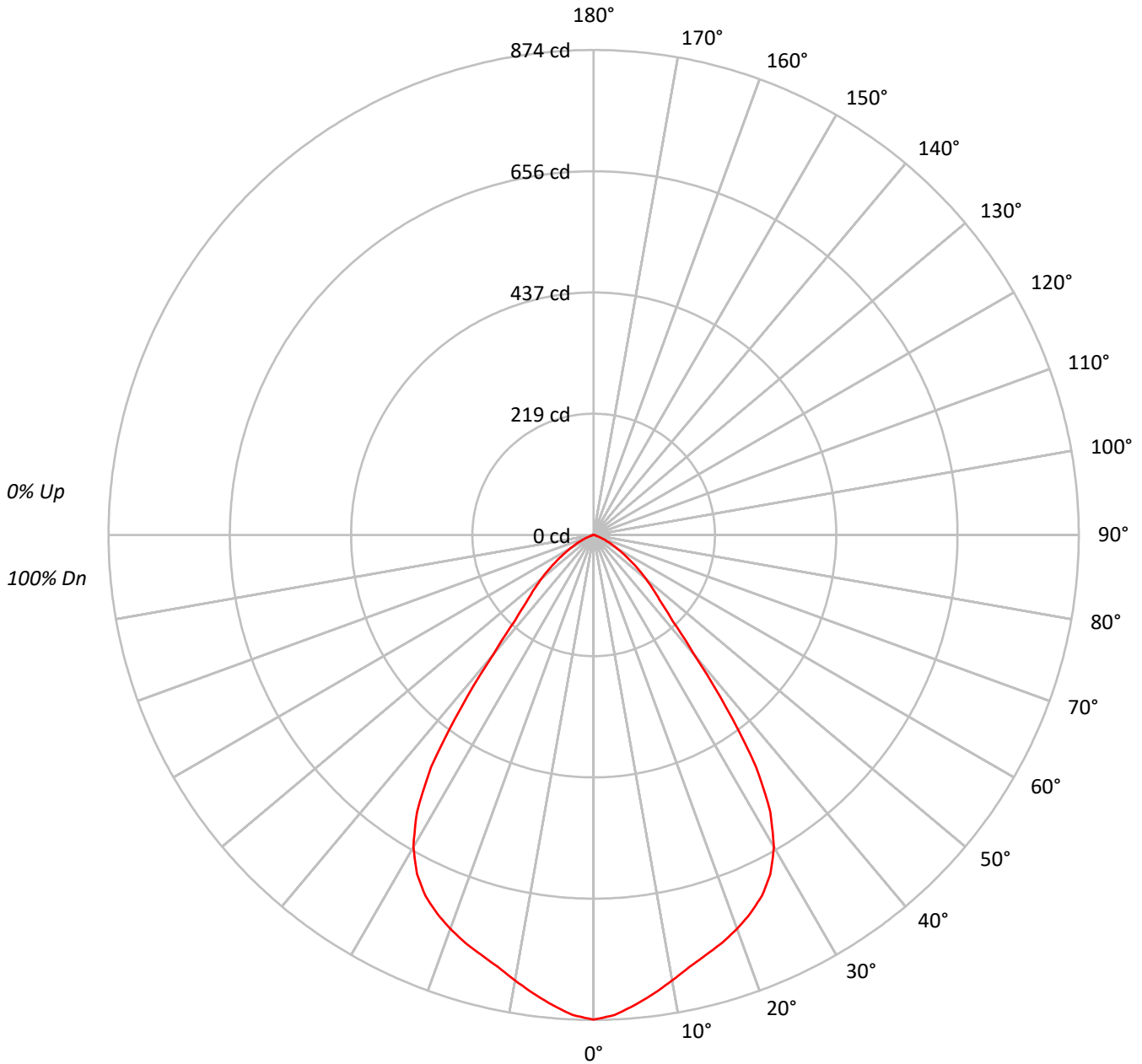
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68		
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62		
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57		
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

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

	0°
0°	26936
5°	26326
10°	25522
15°	25003
20°	24782
25°	24412
30°	23123
35°	19214
40°	11311
45°	7483
50°	5886
55°	4339
60°	3010
65°	1831
70°	802
75°	357
80°	249
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	6.8
10°-20°	221.4	18.8
20°-30°	328.1	27.9
30°-40°	303.2	25.8
40°-50°	139.8	11.9
50°-60°	73.5	6.2
60°-70°	26.0	2.2
70°-80°	4.1	0.3
80°-90°	0.4	0.0
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°	629.6	53.5
0°-40°	932.8	79.3
0°-60°	1146.1	97.4
0°-90°	1176.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	874	
5°	850	80
15°	783	221
25°	718	328
35°	510	303
45°	172	140
55°	81	74
65°	25	26
75°	3	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	873.5
2.5°	866.2
5°	850.5
7.5°	833.6
10°	815.1
12.5°	797.3
15°	783.2
17.5°	770.7
20°	755.2
22.5°	738.1
25°	717.5
27.5°	689.3
30°	649.4
32.5°	592.5
35°	510.4
37.5°	392.0
40°	281.0
42.5°	210.8
45°	171.6
47.5°	145.7
50°	122.7
52.5°	100.6
55°	80.7
57.5°	63.6
60°	48.8
62.5°	37.0
65°	25.1
67.5°	14.8
70°	8.9
72.5°	5.2
75°	3.0
77.5°	2.2
80°	1.4
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)