

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: P583713

Luminaire Tested: **HC810D010-HM80520830-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520830-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1143.9 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

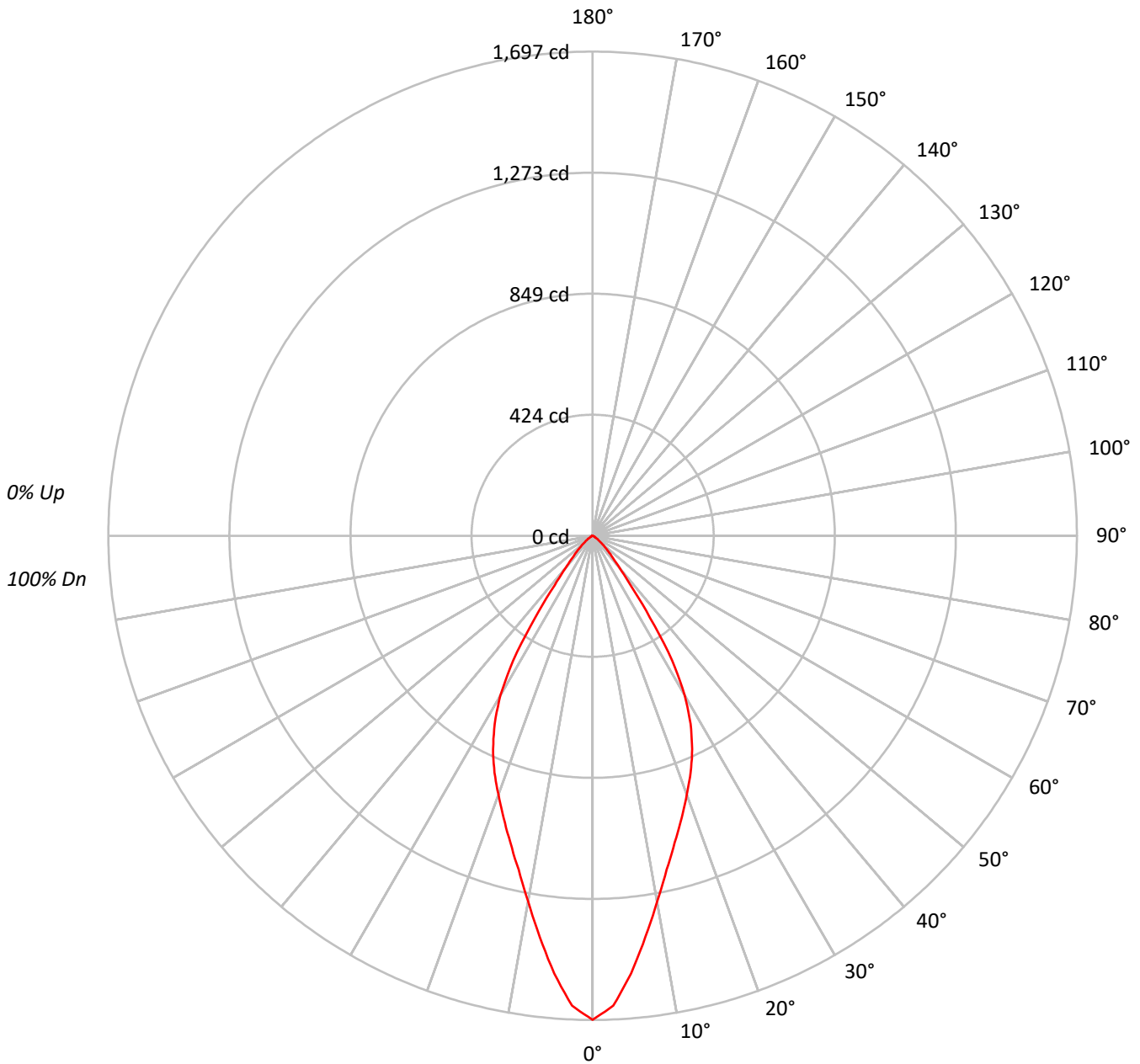
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52317
5°	47676
10°	40734
15°	35525
20°	31660
25°	28083
30°	22995
35°	13202
40°	5861
45°	3415
50°	1967
55°	1124
60°	623
65°	394
70°	279
75°	191
80°	124
85°	248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	12.2
10°-20°	312.8	27.3
20°-30°	374.4	32.7
30°-40°	226.5	19.8
40°-50°	63.5	5.6
50°-60°	19.7	1.7
60°-70°	5.6	0.5
70°-80°	1.5	0.1
80°-90°	0.5	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°	826.6	72.3
0°-40°	1053.1	92.1
0°-60°	1136.3	99.3
0°-90°	1143.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1697	
5°	1540	139
15°	1113	313
25°	825	374
35°	351	226
45°	78	64
55°	21	20
65°	5	6
75°	2	2
85°	1	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1696.6
2.5°	1648.7
5°	1540.2
7.5°	1417.9
10°	1300.9
12.5°	1198.8
15°	1112.8
17.5°	1036.8
20°	964.8
22.5°	898.3
25°	825.4
27.5°	743.4
30°	645.8
32.5°	519.6
35°	350.7
37.5°	218.4
40°	145.6
42.5°	104.6
45°	78.3
47.5°	57.3
50°	41.0
52.5°	28.6
55°	20.9
57.5°	13.9
60°	10.1
62.5°	7.0
65°	5.4
67.5°	3.8
70°	3.1
72.5°	1.6
75°	1.6
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)