

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: P583800

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520935-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1098.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

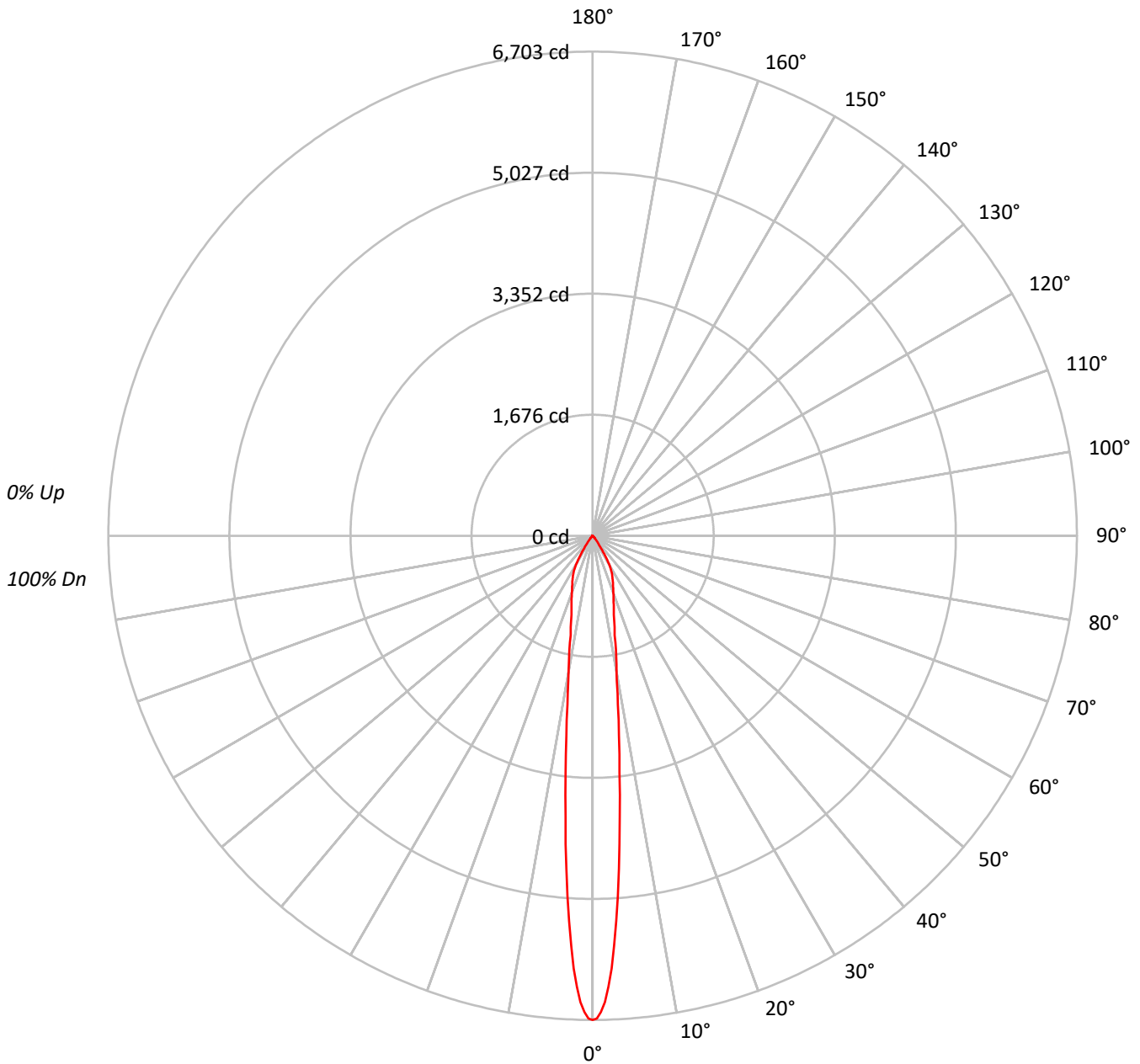
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	206699
5°	132580
10°	59890
15°	36135
20°	27535
25°	22238
30°	16297
35°	5899
40°	2202
45°	1003
50°	317
55°	75
60°	43
65°	51
70°	0
75°	0
80°	124
85°	248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.7	29.8
10°-20°	331.8	30.2
20°-30°	297.0	27.1
30°-40°	119.6	10.9
40°-50°	19.6	1.8
50°-60°	1.7	0.2
60°-70°	0.6	0.1
70°-80°	0.5	0.0
80°-90°	0.7	0.1
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°	955.5	87.0
0°-40°	1075.1	97.9
0°-60°	1096.5	99.9
0°-90°	1098.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6703	
5°	4283	327
15°	1132	332
25°	654	297
35°	157	120
45°	23	20
55°	1	2
65°	1	1
75°	0	0
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6703.1
0.5°	6682.3
1°	6595.9
1.5°	6456.8
2°	6246.1
2.5°	5996.9
3°	5685.0
3.5°	5342.6
4°	5003.9
4.5°	4624.7
5°	4283.1
5.5°	3911.2
6°	3609.6
6.5°	3295.3
7°	3048.4
7.5°	2787.4
8°	2577.4
8.5°	2366.7
9°	2208.4
9.5°	2034.0
10°	1912.7
12.5°	1410.7
15°	1131.9
17.5°	967.1
20°	839.1
22.5°	737.2
25°	653.6
27.5°	570.0
30°	457.7
32.5°	294.2
35°	156.7
37.5°	86.5
40°	54.7
42.5°	36.2
45°	23.0
47.5°	14.1
50°	6.6
52.5°	2.2
55°	1.4
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.7
87.5°	0.7
90°	0.0



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— 0°-180°







67.5°		0.7
70°		0.0



(END OF REPORT)