

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: P583766

Luminaire Tested: **HC810D010-HM80520927-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583766
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-HM80520927-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 938.9 lumens
Efficiency: N/A
Efficacy: 94.8 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

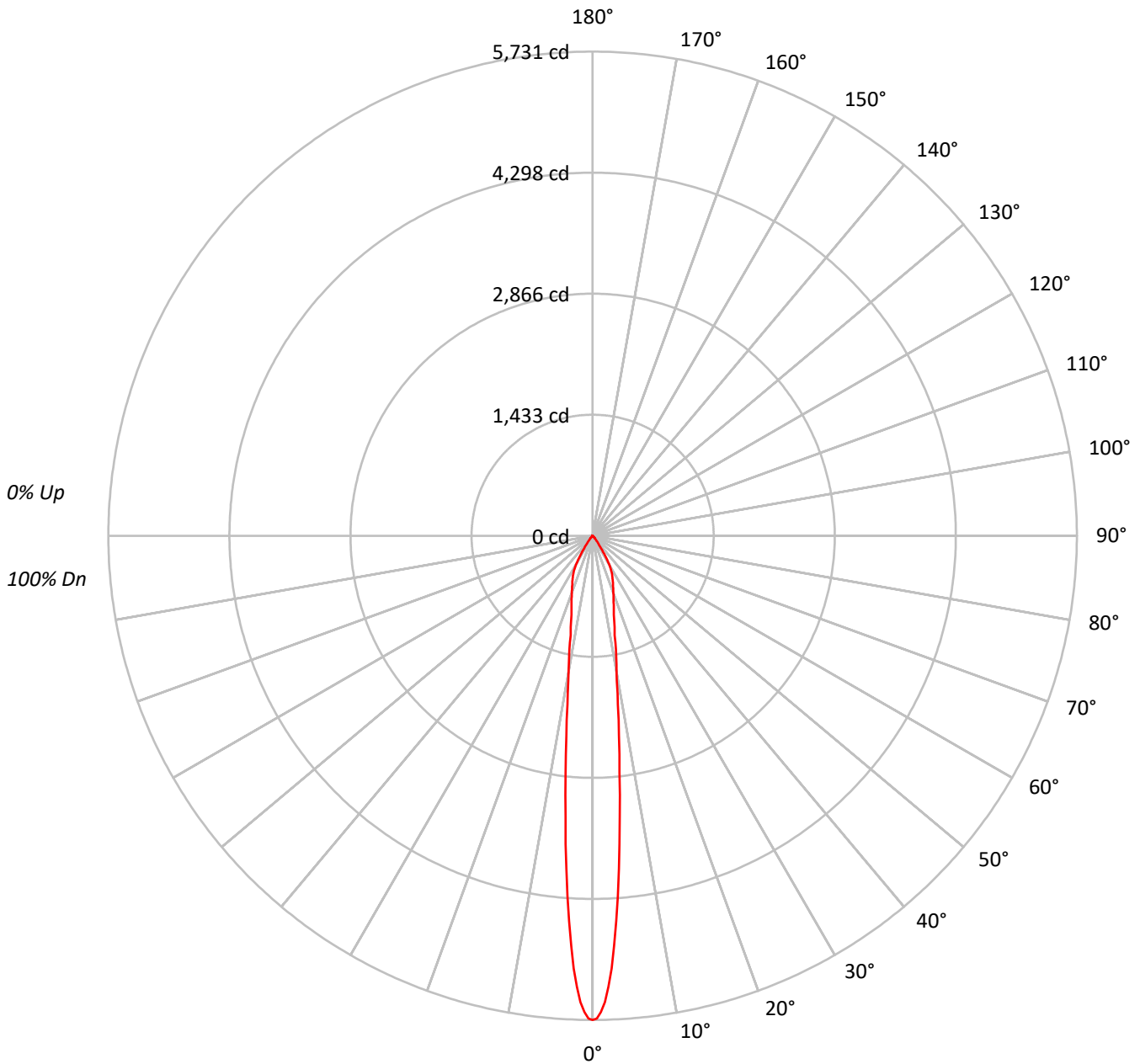
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	176732
5°	113357
10°	51208
15°	30899
20°	23545
25°	19013
30°	13936
35°	5044
40°	1884
45°	855
50°	269
55°	70
60°	37
65°	44
70°	0
75°	0
80°	107
85°	212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	29.7
10°-20°	283.7	30.2
20°-30°	254.0	27.0
30°-40°	102.3	10.9
40°-50°	16.8	1.8
50°-60°	1.5	0.2
60°-70°	0.5	0.1
70°-80°	0.4	0.0
80°-90°	0.6	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°	817.0	87.0
0°-40°	919.3	97.9
0°-60°	937.5	99.9
0°-90°	939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5731	
5°	3662	279
15°	968	284
25°	559	254
35°	134	102
45°	20	17
55°	1	2
65°	1	1
75°	0	0
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5731.3
0.5°	5713.6
1°	5639.5
1.5°	5520.7
2°	5340.6
2.5°	5127.5
3°	4860.8
3.5°	4568.1
4°	4278.5
4.5°	3954.2
5°	3662.1
5.5°	3344.2
6°	3086.3
6.5°	2817.6
7°	2606.4
7.5°	2383.3
8°	2203.7
8.5°	2023.6
9°	1888.3
9.5°	1739.1
10°	1635.4
12.5°	1206.2
15°	967.9
17.5°	826.9
20°	717.5
22.5°	630.3
25°	558.8
27.5°	487.4
30°	391.4
32.5°	251.6
35°	134.0
37.5°	73.9
40°	46.8
42.5°	31.0
45°	19.6
47.5°	12.0
50°	5.6
52.5°	1.9
55°	1.3
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.6
90°	0.0



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— 0°-180°







67.5°		0.6
70°		0.0



(END OF REPORT)