

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: P583786

Luminaire Tested: **HC810D010-HM80520930-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1041.3 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

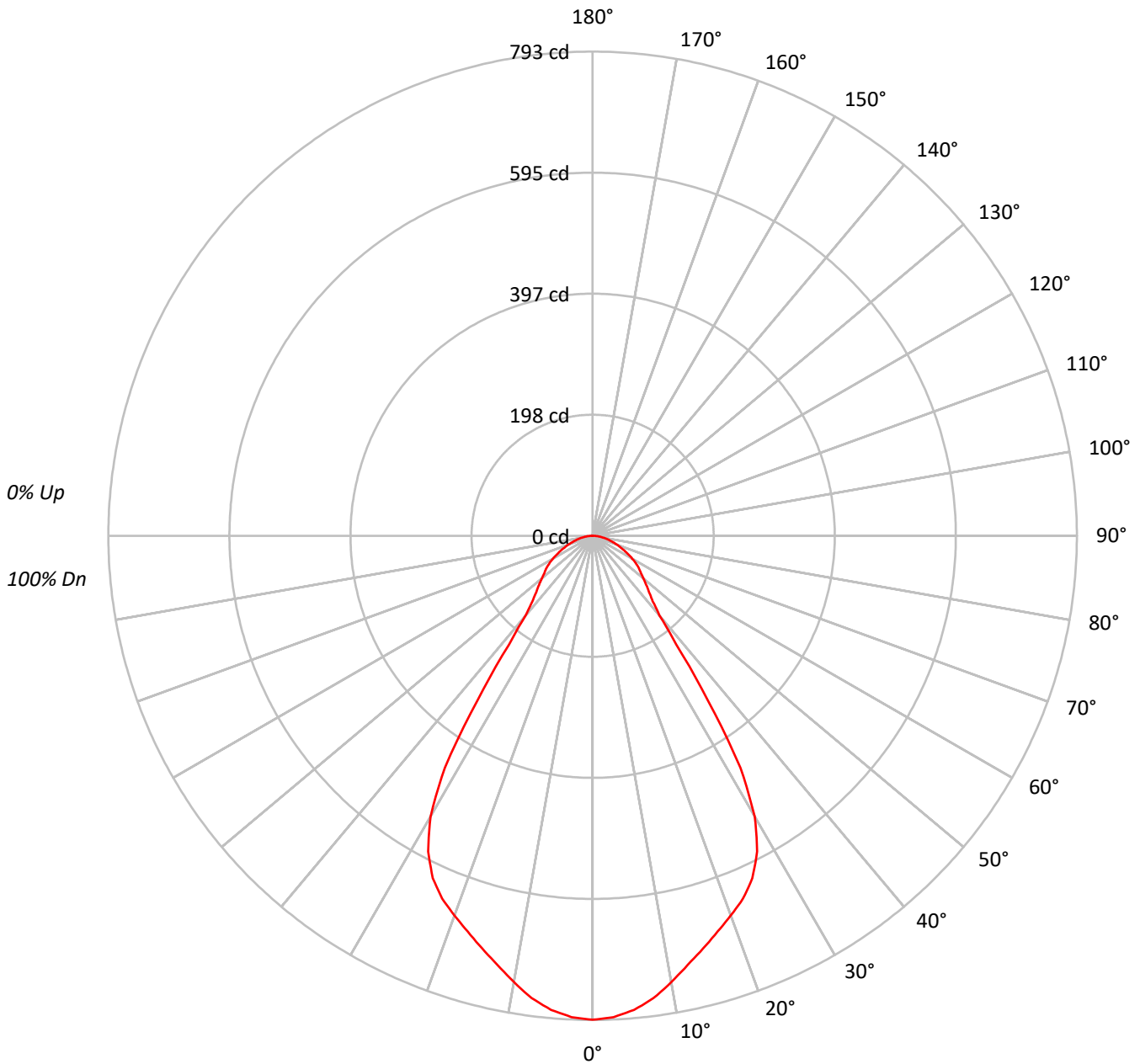
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24441
5°	24126
10°	23240
15°	22334
20°	21714
25°	21061
30°	18900
35°	12389
40°	6851
45°	5708
50°	5205
55°	4968
60°	4619
65°	4195
70°	3796
75°	3419
80°	3108
85°	2972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	7.0
10°-20°	197.4	19.0
20°-30°	280.9	27.0
30°-40°	207.9	20.0
40°-50°	103.0	9.9
50°-60°	82.1	7.9
60°-70°	57.1	5.5
70°-80°	30.7	3.0
80°-90°	9.0	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°	551.4	53.0
0°-40°	759.3	72.9
0°-60°	944.4	90.7
0°-90°	1041.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	793	
5°	779	73
15°	700	197
25°	619	281
35°	329	208
45°	131	103
55°	92	82
65°	58	57
75°	29	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	792.6
2.5°	789.1
5°	779.4
7.5°	763.9
10°	742.2
12.5°	719.8
15°	699.6
17.5°	679.9
20°	661.7
22.5°	643.4
25°	619.0
27.5°	583.3
30°	530.8
32.5°	450.3
35°	329.1
37.5°	224.8
40°	170.2
42.5°	145.7
45°	130.9
47.5°	119.0
50°	108.5
52.5°	99.4
55°	92.4
57.5°	84.0
60°	74.9
62.5°	65.9
65°	57.5
67.5°	49.0
70°	42.1
72.5°	35.0
75°	28.7
77.5°	23.1
80°	17.5
82.5°	12.6
85°	8.4
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)