

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: P583718

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583718
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-HM80520830-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1151.7 lumens
Efficiency: N/A
Efficacy: 116.3 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

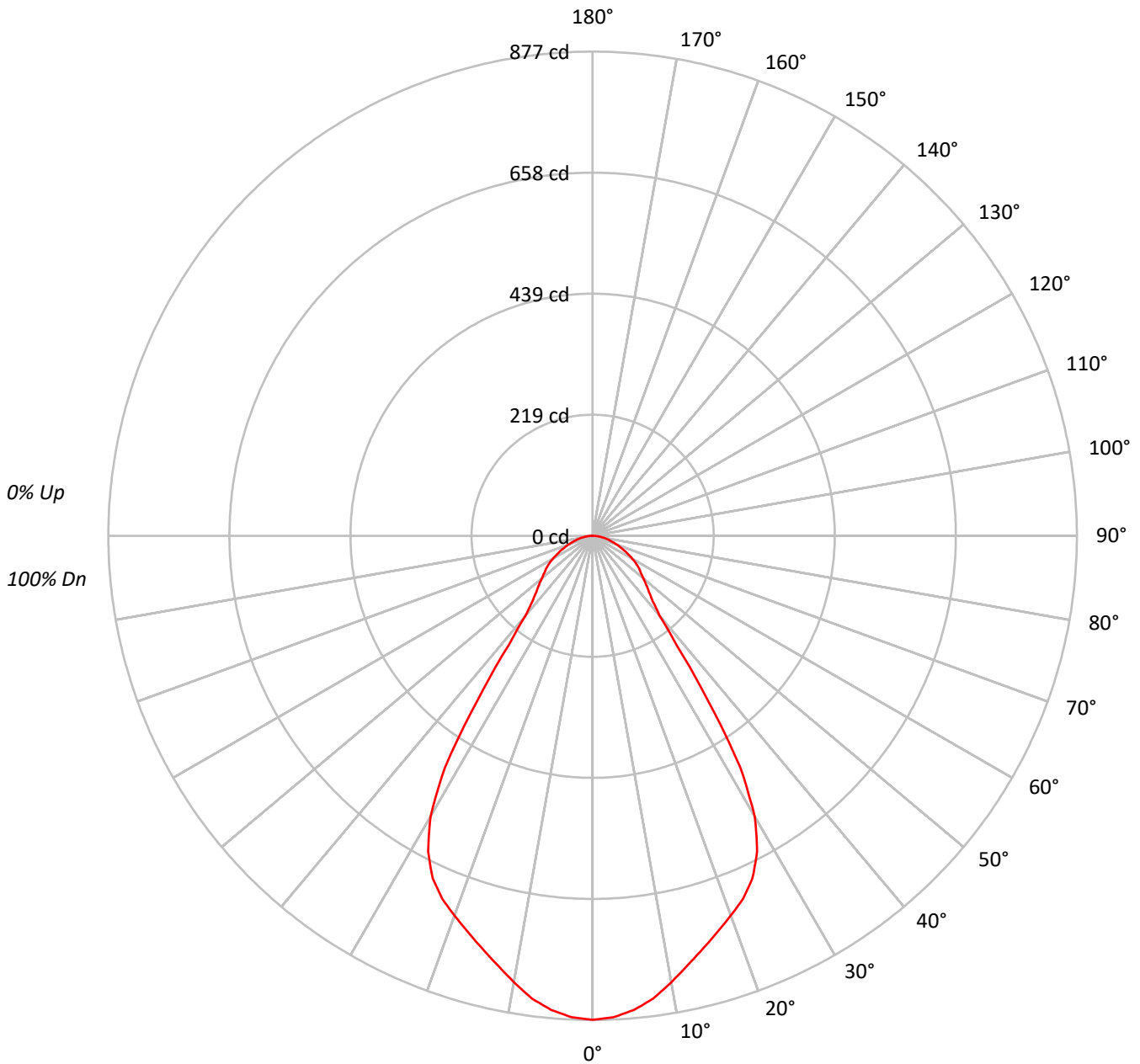
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27034
5°	26682
10°	25707
15°	24700
20°	24018
25°	23296
30°	20905
35°	13702
40°	7576
45°	6315
50°	5762
55°	5500
60°	5106
65°	4633
70°	4192
75°	3777
80°	3445
85°	3290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	7.0
10°-20°	218.3	19.0
20°-30°	310.7	27.0
30°-40°	229.9	20.0
40°-50°	113.9	9.9
50°-60°	90.9	7.9
60°-70°	63.1	5.5
70°-80°	34.0	3.0
80°-90°	10.0	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°	609.9	53.0
0°-40°	839.9	72.9
0°-60°	1044.6	90.7
0°-90°	1151.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	877	
5°	862	81
15°	774	218
25°	685	311
35°	364	230
45°	145	114
55°	102	91
65°	64	63
75°	32	34
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	876.7
2.5°	872.9
5°	862.0
7.5°	845.0
10°	821.0
12.5°	796.2
15°	773.7
17.5°	752.0
20°	731.9
22.5°	711.7
25°	684.7
27.5°	645.1
30°	587.1
32.5°	498.0
35°	364.0
37.5°	248.6
40°	188.2
42.5°	161.1
45°	144.8
47.5°	131.6
50°	120.1
52.5°	110.0
55°	102.3
57.5°	92.9
60°	82.8
62.5°	72.8
65°	63.5
67.5°	54.2
70°	46.5
72.5°	38.7
75°	31.7
77.5°	25.6
80°	19.4
82.5°	13.9
85°	9.3
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)