

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: P583820

Luminaire Tested: **HC810D010-HM80520940-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583820
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-HM80520940-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1132.3 lumens
Efficiency: N/A
Efficacy: 114.4 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

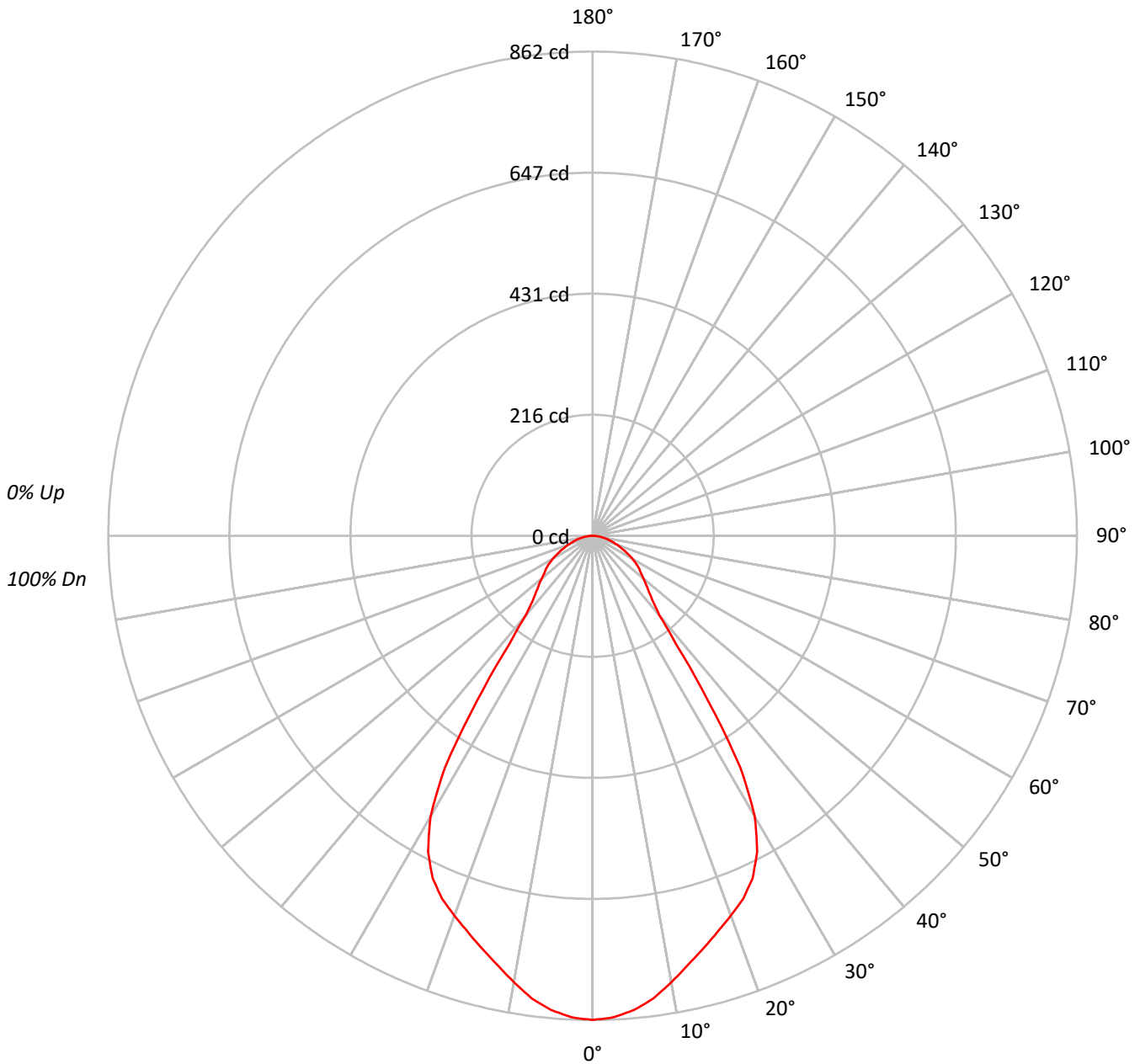
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26581
5°	26231
10°	25272
15°	24281
20°	23611
25°	22902
30°	20552
35°	13469
40°	7447
45°	6210
50°	5661
55°	5403
60°	5026
65°	4553
70°	4120
75°	3729
80°	3374
85°	3220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	7.0
10°-20°	214.6	19.0
20°-30°	305.4	27.0
30°-40°	226.0	20.0
40°-50°	112.0	9.9
50°-60°	89.4	7.9
60°-70°	62.0	5.5
70°-80°	33.4	3.0
80°-90°	9.8	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°	599.6	53.0
0°-40°	825.7	72.9
0°-60°	1027.0	90.7
0°-90°	1132.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1132.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	862	
5°	847	80
15°	761	215
25°	673	305
35°	358	226
45°	142	112
55°	100	89
65°	62	62
75°	31	33
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	862.0
2.5°	858.1
5°	847.4
7.5°	830.7
10°	807.1
12.5°	782.7
15°	760.6
17.5°	739.4
20°	719.5
22.5°	699.7
25°	673.1
27.5°	634.3
30°	577.2
32.5°	489.6
35°	357.8
37.5°	244.4
40°	185.0
42.5°	158.4
45°	142.4
47.5°	129.5
50°	118.0
52.5°	108.1
55°	100.5
57.5°	91.4
60°	81.5
62.5°	71.5
65°	62.4
67.5°	53.2
70°	45.7
72.5°	38.1
75°	31.3
77.5°	25.1
80°	19.0
82.5°	13.7
85°	9.1
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)