

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: P583701

Luminaire Tested: **HC810D010-HM80520827-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583701
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-HM80520827-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1158.1 lumens
Efficiency: N/A
Efficacy: 117.0 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

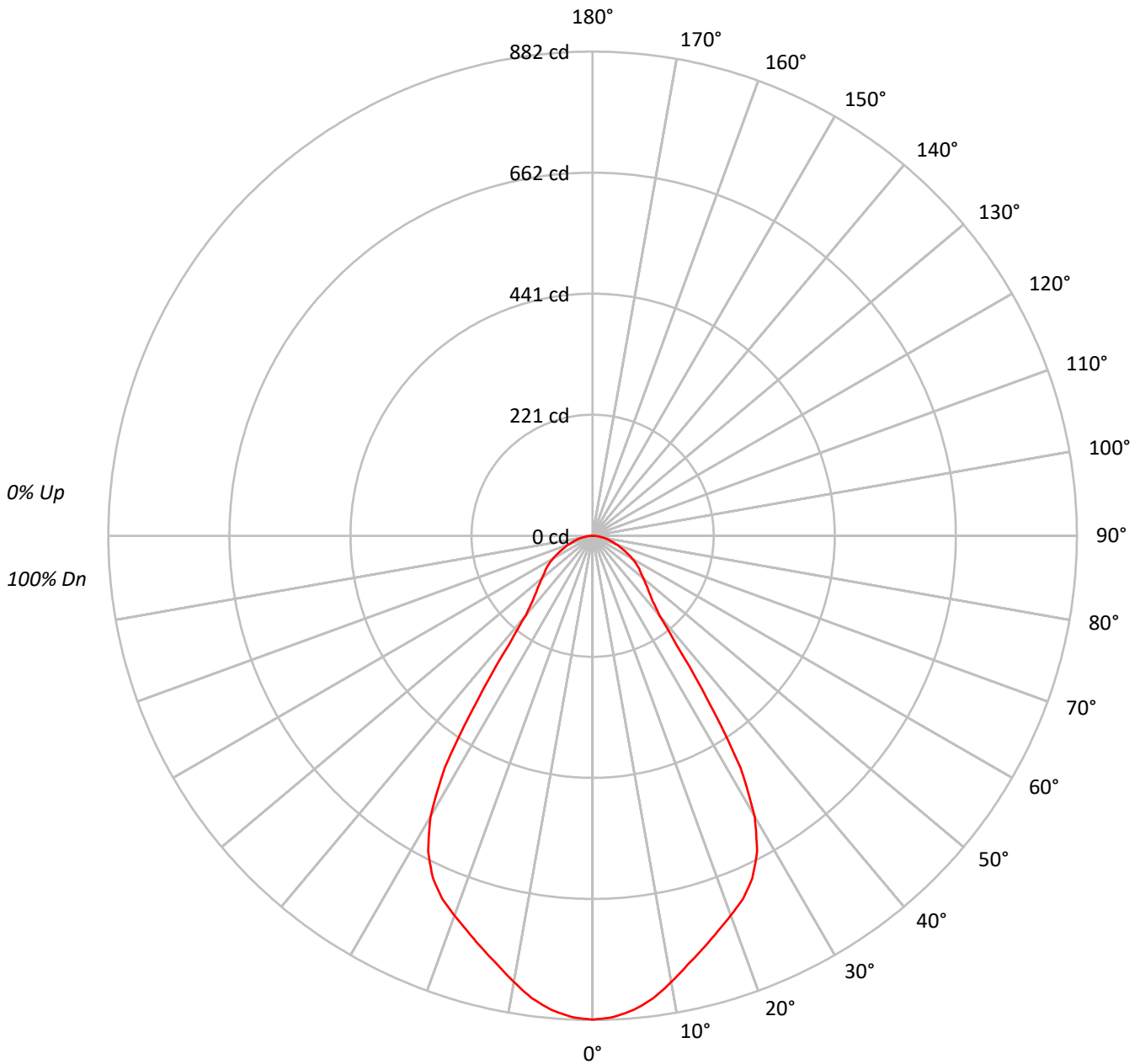
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27182
5°	26831
10°	25845
15°	24834
20°	24149
25°	23422
30°	21019
35°	13778
40°	7616
45°	6349
50°	5790
55°	5527
60°	5137
65°	4655
70°	4219
75°	3813
80°	3463
85°	3326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	7.0
10°-20°	219.5	19.0
20°-30°	312.4	27.0
30°-40°	231.2	20.0
40°-50°	114.5	9.9
50°-60°	91.4	7.9
60°-70°	63.4	5.5
70°-80°	34.2	3.0
80°-90°	10.1	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°	613.3	53.0
0°-40°	844.5	72.9
0°-60°	1050.3	90.7
0°-90°	1158.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	882	
5°	867	81
15°	778	219
25°	688	312
35°	366	231
45°	146	114
55°	103	91
65°	64	63
75°	32	34
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	881.5
2.5°	877.6
5°	866.8
7.5°	849.6
10°	825.4
12.5°	800.5
15°	777.9
17.5°	756.2
20°	735.9
22.5°	715.7
25°	688.4
27.5°	648.7
30°	590.3
32.5°	500.8
35°	366.0
37.5°	250.0
40°	189.2
42.5°	162.0
45°	145.6
47.5°	132.3
50°	120.7
52.5°	110.6
55°	102.8
57.5°	93.4
60°	83.3
62.5°	73.2
65°	63.8
67.5°	54.5
70°	46.8
72.5°	38.9
75°	32.0
77.5°	25.7
80°	19.5
82.5°	14.1
85°	9.4
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)