

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: P583684

Luminaire Tested: **HC807D010-HM80520940-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583684
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: HC807D010-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: 910.1 lumens
Efficiency: N/A
Efficacy: 113.8 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

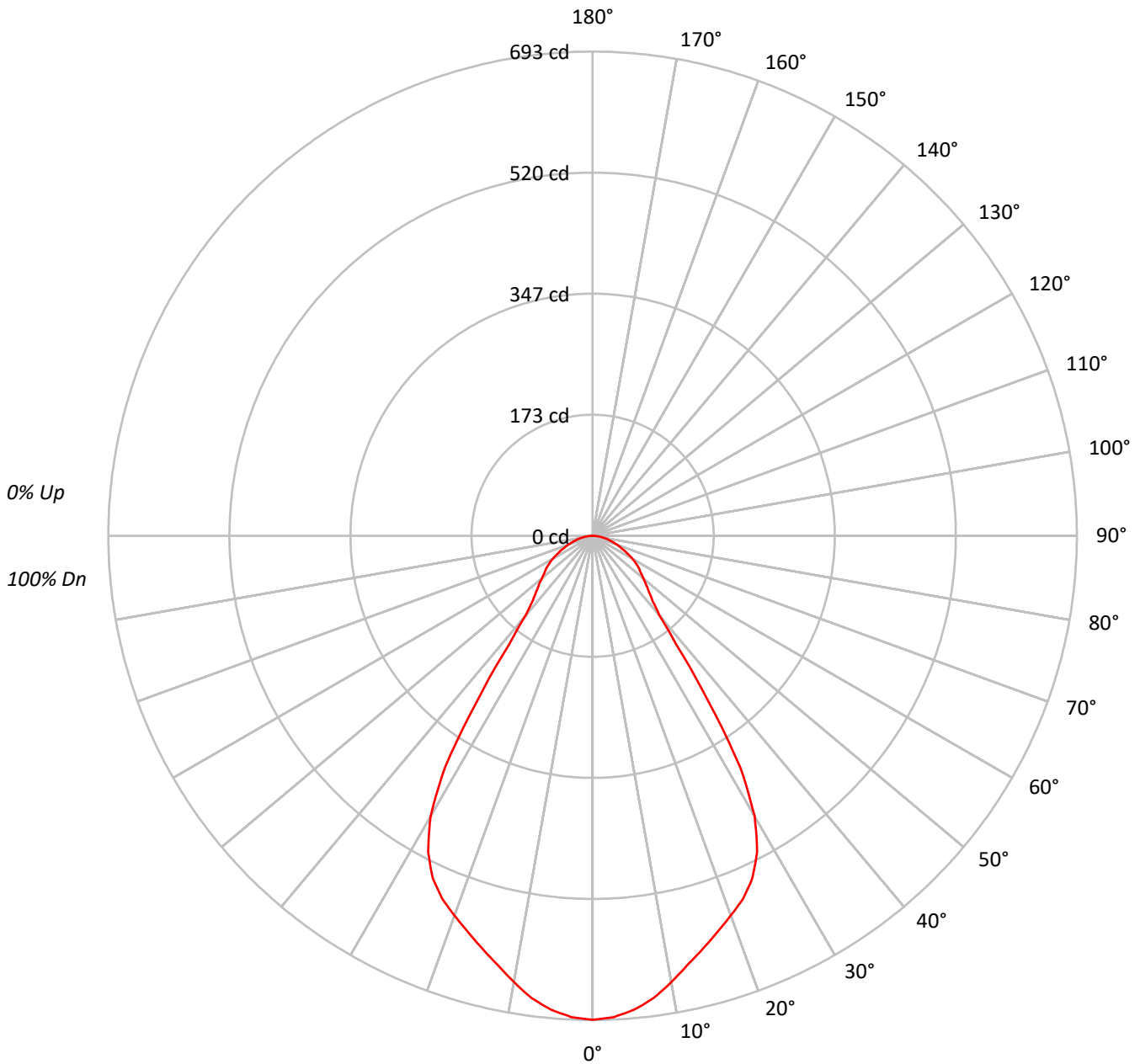
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21360
5°	21080
10°	20309
15°	19518
20°	18977
25°	18407
30°	16514
35°	10826
40°	5986
45°	4993
50°	4553
55°	4344
60°	4040
65°	3663
70°	3309
75°	2990
80°	2717
85°	2583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	7.0
10°-20°	172.5	19.0
20°-30°	245.5	27.0
30°-40°	181.7	20.0
40°-50°	90.0	9.9
50°-60°	71.8	7.9
60°-70°	49.8	5.5
70°-80°	26.9	3.0
80°-90°	7.9	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°	481.9	53.0
0°-40°	663.6	72.9
0°-60°	825.4	90.7
0°-90°	910.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	693	
5°	681	64
15°	611	172
25°	541	245
35°	288	182
45°	114	90
55°	81	72
65°	50	50
75°	25	27
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	692.7
2.5°	689.6
5°	681.0
7.5°	667.6
10°	648.6
12.5°	629.0
15°	611.4
17.5°	594.2
20°	578.3
22.5°	562.4
25°	541.0
27.5°	509.8
30°	463.8
32.5°	393.5
35°	287.6
37.5°	196.5
40°	148.7
42.5°	127.3
45°	114.5
47.5°	104.1
50°	94.9
52.5°	86.9
55°	80.8
57.5°	73.4
60°	65.5
62.5°	57.5
65°	50.2
67.5°	42.8
70°	36.7
72.5°	30.6
75°	25.1
77.5°	20.2
80°	15.3
82.5°	11.0
85°	7.3
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)