

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: P583582

Luminaire Tested: **HC807D010-HM80520830-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583582
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-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: 925.6 lumens
Efficiency: N/A
Efficacy: 115.7 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

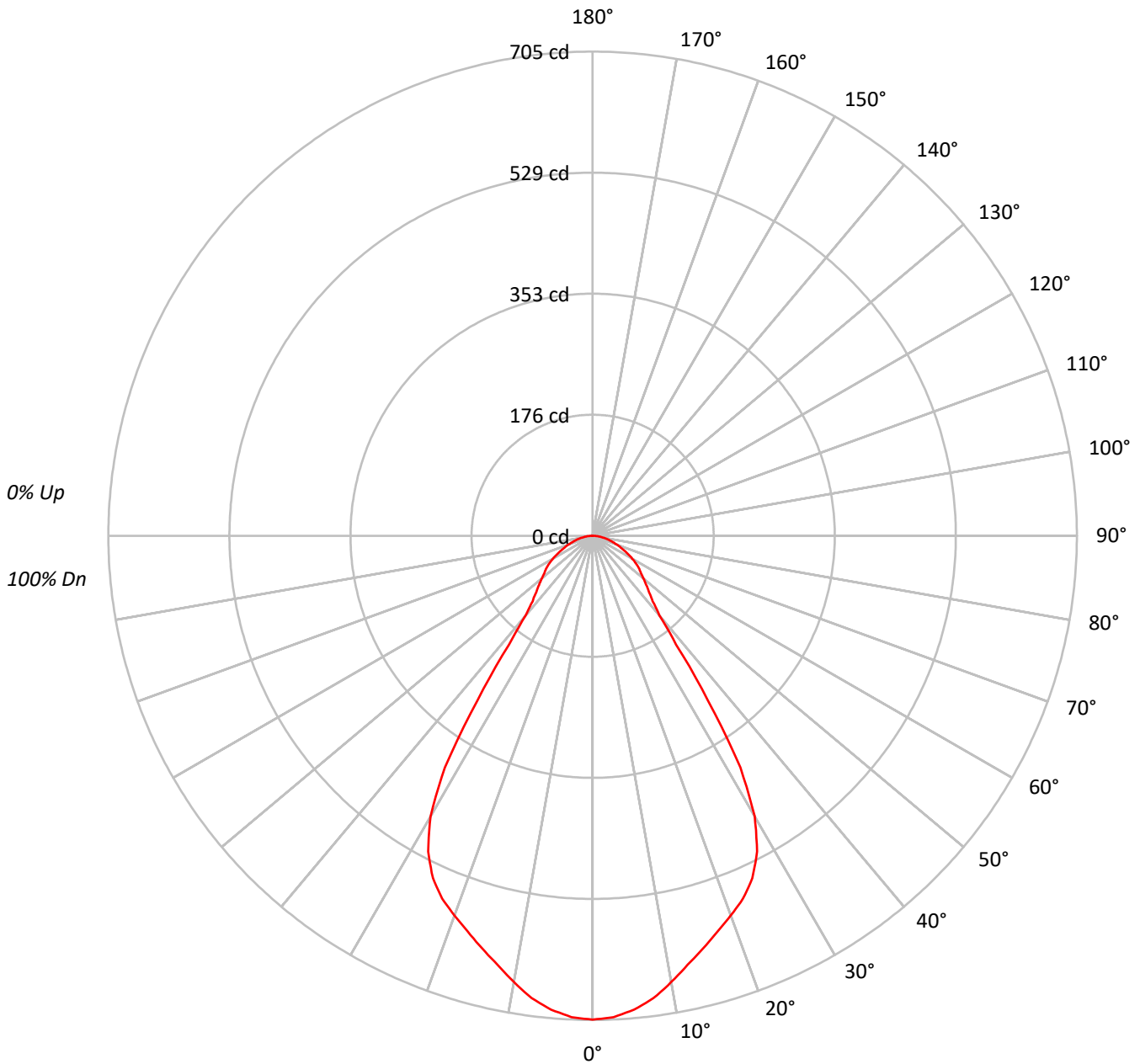
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21727
5°	21442
10°	20660
15°	19850
20°	19302
25°	18720
30°	16799
35°	11011
40°	6090
45°	5076
50°	4625
55°	4419
60°	4107
65°	3721
70°	3372
75°	3050
80°	2752
85°	2654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	7.0
10°-20°	175.4	19.0
20°-30°	249.7	27.0
30°-40°	184.8	20.0
40°-50°	91.5	9.9
50°-60°	73.1	7.9
60°-70°	50.7	5.5
70°-80°	27.4	3.0
80°-90°	8.0	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°	490.2	53.0
0°-40°	675.0	72.9
0°-60°	839.5	90.7
0°-90°	925.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	705	
5°	693	65
15°	622	175
25°	550	250
35°	292	185
45°	116	92
55°	82	73
65°	51	51
75°	26	27
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	704.6
2.5°	701.5
5°	692.7
7.5°	679.1
10°	659.8
12.5°	639.8
15°	621.8
17.5°	604.4
20°	588.2
22.5°	572.0
25°	550.2
27.5°	518.5
30°	471.8
32.5°	400.2
35°	292.5
37.5°	199.8
40°	151.3
42.5°	129.4
45°	116.4
47.5°	105.8
50°	96.4
52.5°	88.4
55°	82.2
57.5°	74.7
60°	66.6
62.5°	58.6
65°	51.0
67.5°	43.6
70°	37.4
72.5°	31.1
75°	25.6
77.5°	20.6
80°	15.5
82.5°	11.2
85°	7.5
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)