

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: P593475

Luminaire Tested: **HC805D010-HM80520950-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593475
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: HC805D010-HM80520950-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 689.8 lumens
Efficiency: N/A
Efficacy: 115.0 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

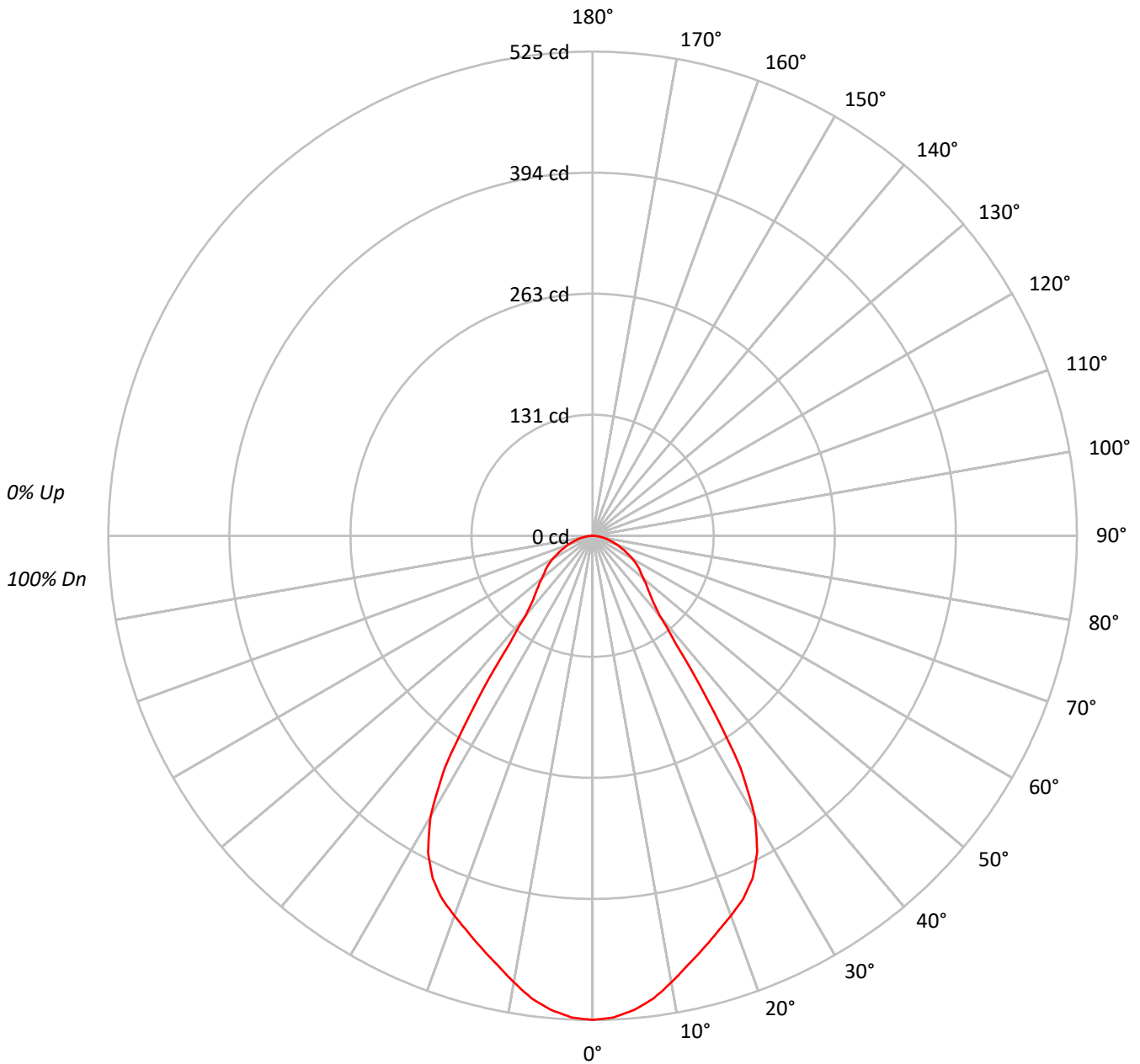
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16189
5°	15975
10°	15393
15°	14794
20°	14383
25°	13950
30°	12519
35°	8206
40°	4541
45°	3785
50°	3449
55°	3290
60°	3065
65°	2780
70°	2506
75°	2264
80°	2060
85°	1946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	7.0
10°-20°	130.7	19.0
20°-30°	186.1	27.0
30°-40°	137.7	20.0
40°-50°	68.2	9.9
50°-60°	54.4	7.9
60°-70°	37.8	5.5
70°-80°	20.4	3.0
80°-90°	6.0	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°	365.3	53.0
0°-40°	503.0	72.9
0°-60°	625.6	90.7
0°-90°	689.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	525	
5°	516	48
15°	463	131
25°	410	186
35°	218	138
45°	87	68
55°	61	54
65°	38	38
75°	19	20
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	525.0
2.5°	522.7
5°	516.1
7.5°	506.0
10°	491.6
12.5°	476.8
15°	463.4
17.5°	450.3
20°	438.3
22.5°	426.3
25°	410.0
27.5°	386.4
30°	351.6
32.5°	298.2
35°	218.0
37.5°	148.9
40°	112.8
42.5°	96.5
45°	86.8
47.5°	78.9
50°	71.9
52.5°	65.8
55°	61.2
57.5°	55.7
60°	49.7
62.5°	43.6
65°	38.1
67.5°	32.4
70°	27.8
72.5°	23.2
75°	19.0
77.5°	15.3
80°	11.6
82.5°	8.4
85°	5.5
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)