

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: P580842

Luminaire Tested: **HC450D010-HM44560827-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560827-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982.7 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

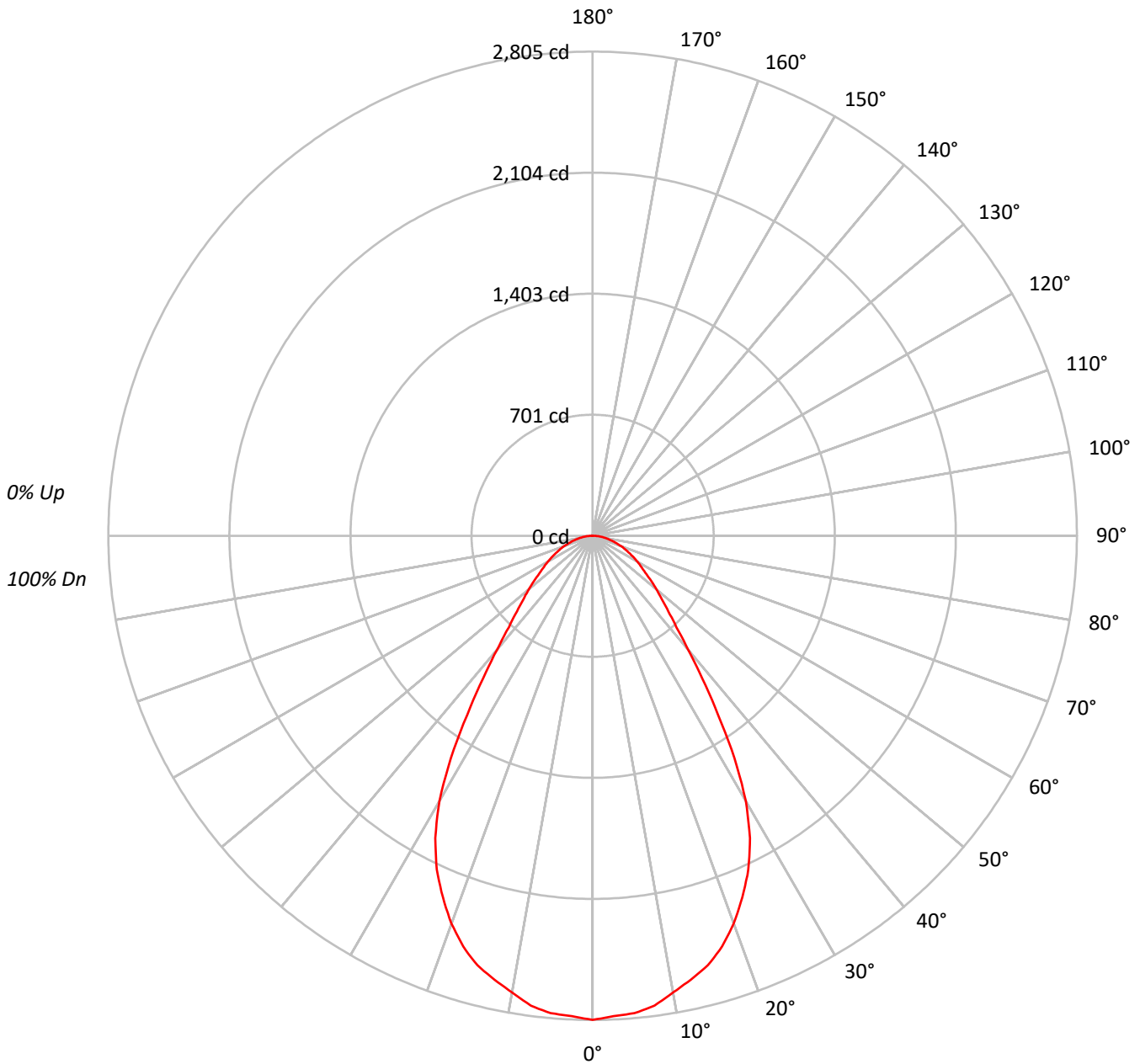
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580842

CATALOG NUMBER: HC450D010-HM44560827-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P580842

CATALOG NUMBER: HC450D010-HM44560827-41PSMDW

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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	345947
5°	343777
10°	336467
15°	329011
20°	313807
25°	290485
30°	252666
35°	190811
40°	138281
45°	108064
50°	92396
55°	79933
60°	73613
65°	67391
70°	62967
75°	57713
80°	54055
85°	51798



TEST NUMBER: P580842

CATALOG NUMBER: HC450D010-HM44560827-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	6.6
10°-20°	721.7	18.1
20°-30°	970.5	24.4
30°-40°	798.0	20.0
40°-50°	490.1	12.3
50°-60°	339.1	8.5
60°-70°	231.2	5.8
70°-80°	128.9	3.2
80°-90°	41.0	1.0
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°	1954.4	49.1
0°-40°	2752.5	69.1
0°-60°	3581.7	89.9
0°-90°	3982.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2805	
5°	2776	262
15°	2576	722
25°	2134	970
35°	1267	798
45°	620	490
55°	372	339
65°	231	231
75°	121	129
85°	37	41
90°	0	



TEST NUMBER: P580842

CATALOG NUMBER: HC450D010-HM44560827-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2804.7
2.5°	2784.9
5°	2776.5
7.5°	2745.5
10°	2686.4
12.5°	2632.9
15°	2576.5
17.5°	2494.8
20°	2390.7
22.5°	2266.8
25°	2134.4
27.5°	1974.0
30°	1774.0
32.5°	1529.0
35°	1267.2
37.5°	1041.9
40°	858.8
42.5°	718.1
45°	619.5
47.5°	543.4
50°	481.5
52.5°	425.2
55°	371.7
57.5°	332.3
60°	298.4
62.5°	264.7
65°	230.9
67.5°	202.7
70°	174.6
72.5°	146.5
75°	121.1
77.5°	95.8
80°	76.1
82.5°	56.3
85°	36.6
87.5°	19.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)