

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: P580768

Luminaire Tested: **HC445D010-HM44560927-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3336.5 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

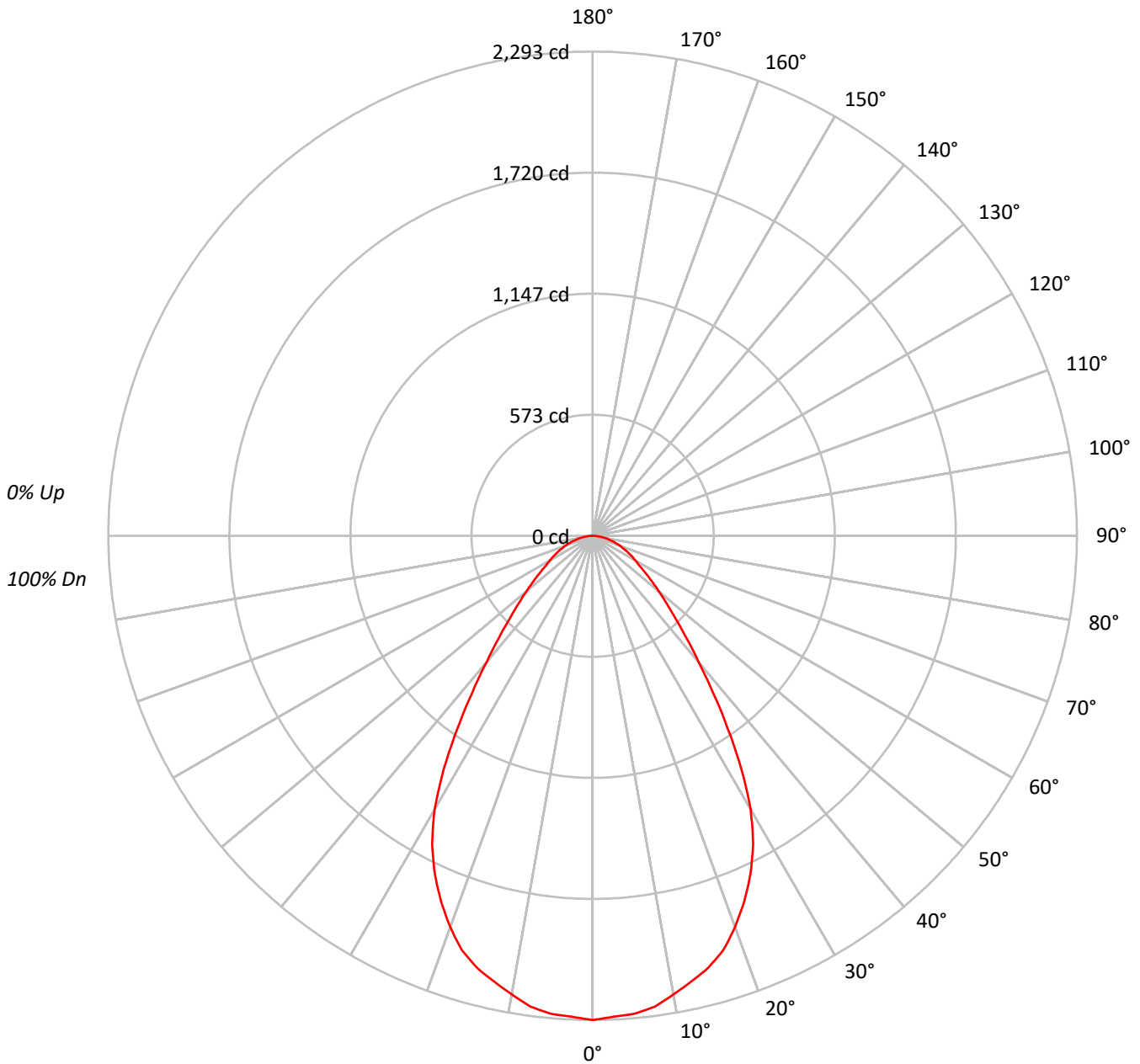
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580768

CATALOG NUMBER: HC445D010-HM44560927-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P580768

CATALOG NUMBER: HC445D010-HM44560927-41MDW

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	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	282869
5°	281374
10°	276223
15°	270423
20°	258835
25°	240687
30°	213028
35°	168135
40°	125818
45°	96778
50°	78522
55°	65116
60°	57602
65°	53323
70°	49191
75°	45179
80°	41056
85°	32692



TEST NUMBER: P580768

CATALOG NUMBER: HC445D010-HM44560927-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	6.4
10°-20°	593.9	17.8
20°-30°	806.4	24.2
30°-40°	698.5	20.9
40°-50°	438.5	13.1
50°-60°	275.9	8.3
60°-70°	181.2	5.4
70°-80°	100.0	3.0
80°-90°	27.3	0.8
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°	1615.1	48.4
0°-40°	2313.6	69.3
0°-60°	3027.9	90.8
0°-90°	3336.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3336.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2293	
5°	2272	215
15°	2118	594
25°	1768	806
35°	1117	698
45°	555	439
55°	303	276
65°	183	181
75°	95	100
85°	23	27
90°	0	



TEST NUMBER: P580768

CATALOG NUMBER: HC445D010-HM44560927-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2293.3
2.5°	2279.5
5°	2272.5
7.5°	2249.4
10°	2205.4
12.5°	2161.5
15°	2117.7
17.5°	2057.5
20°	1971.9
22.5°	1874.9
25°	1768.5
27.5°	1646.0
30°	1495.7
32.5°	1313.1
35°	1116.6
37.5°	936.3
40°	781.4
42.5°	658.8
45°	554.8
47.5°	476.2
50°	409.2
52.5°	351.4
55°	302.8
57.5°	261.2
60°	233.5
62.5°	208.0
65°	182.7
67.5°	157.2
70°	136.4
72.5°	113.3
75°	94.8
77.5°	73.9
80°	57.8
82.5°	39.3
85°	23.1
87.5°	9.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)