

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: P580804

Luminaire Tested: **HC445D010-HM44560935-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580804
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-HM44560935-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3772.5 lumens
Efficiency: N/A
Efficacy: 85.7 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

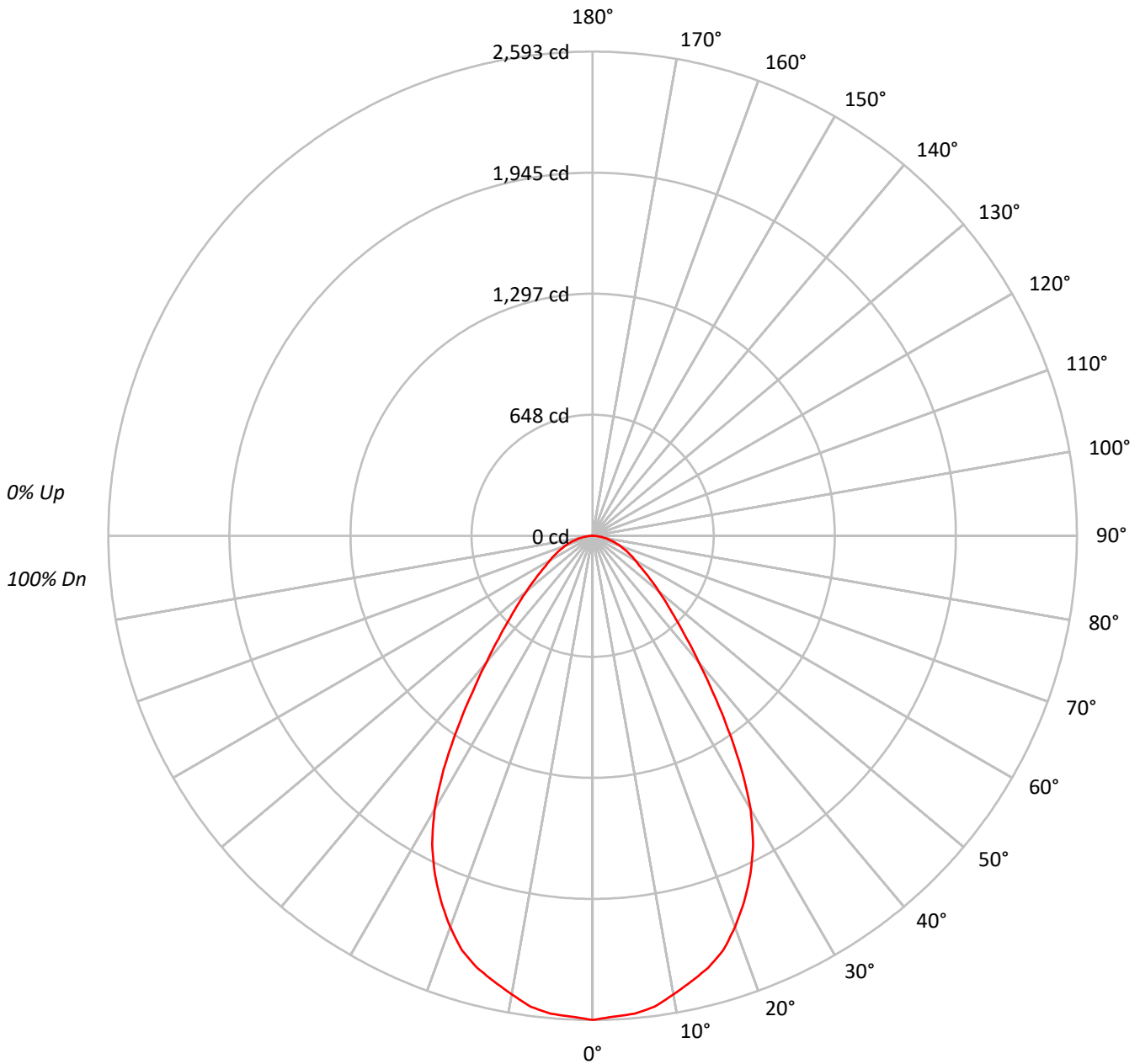
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580804

CATALOG NUMBER: HC445D010-HM44560935-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P580804

CATALOG NUMBER: HC445D010-HM44560935-41MDW

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°	319823
5°	318147
10°	312319
15°	305744
20°	292661
25°	272139
30°	240873
35°	190104
40°	142258
45°	109424
50°	88788
55°	73632
60°	65126
65°	60240
70°	55647
75°	51088
80°	46384
85°	36938



TEST NUMBER: P580804

CATALOG NUMBER: HC445D010-HM44560935-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	6.4
10°-20°	671.4	17.8
20°-30°	911.7	24.2
30°-40°	789.8	20.9
40°-50°	495.8	13.1
50°-60°	311.9	8.3
60°-70°	204.9	5.4
70°-80°	113.0	3.0
80°-90°	30.9	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°	1826.1	48.4
0°-40°	2615.9	69.3
0°-60°	3423.6	90.8
0°-90°	3772.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2593	
5°	2570	243
15°	2394	671
25°	2000	912
35°	1262	790
45°	627	496
55°	342	312
65°	206	205
75°	107	113
85°	26	31
90°	0	



TEST NUMBER: P580804

CATALOG NUMBER: HC445D010-HM44560935-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2592.9
2.5°	2577.3
5°	2569.5
7.5°	2543.3
10°	2493.6
12.5°	2443.9
15°	2394.3
17.5°	2326.4
20°	2229.6
22.5°	2119.9
25°	1999.6
27.5°	1861.1
30°	1691.2
32.5°	1484.7
35°	1262.5
37.5°	1058.6
40°	883.5
42.5°	745.0
45°	627.3
47.5°	538.4
50°	462.7
52.5°	397.3
55°	342.4
57.5°	295.4
60°	264.0
62.5°	235.3
65°	206.4
67.5°	177.7
70°	154.3
72.5°	128.1
75°	107.2
77.5°	83.6
80°	65.3
82.5°	44.4
85°	26.1
87.5°	10.4
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)