

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: P580778

Luminaire Tested: **HC445D010-HM44560930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4051.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

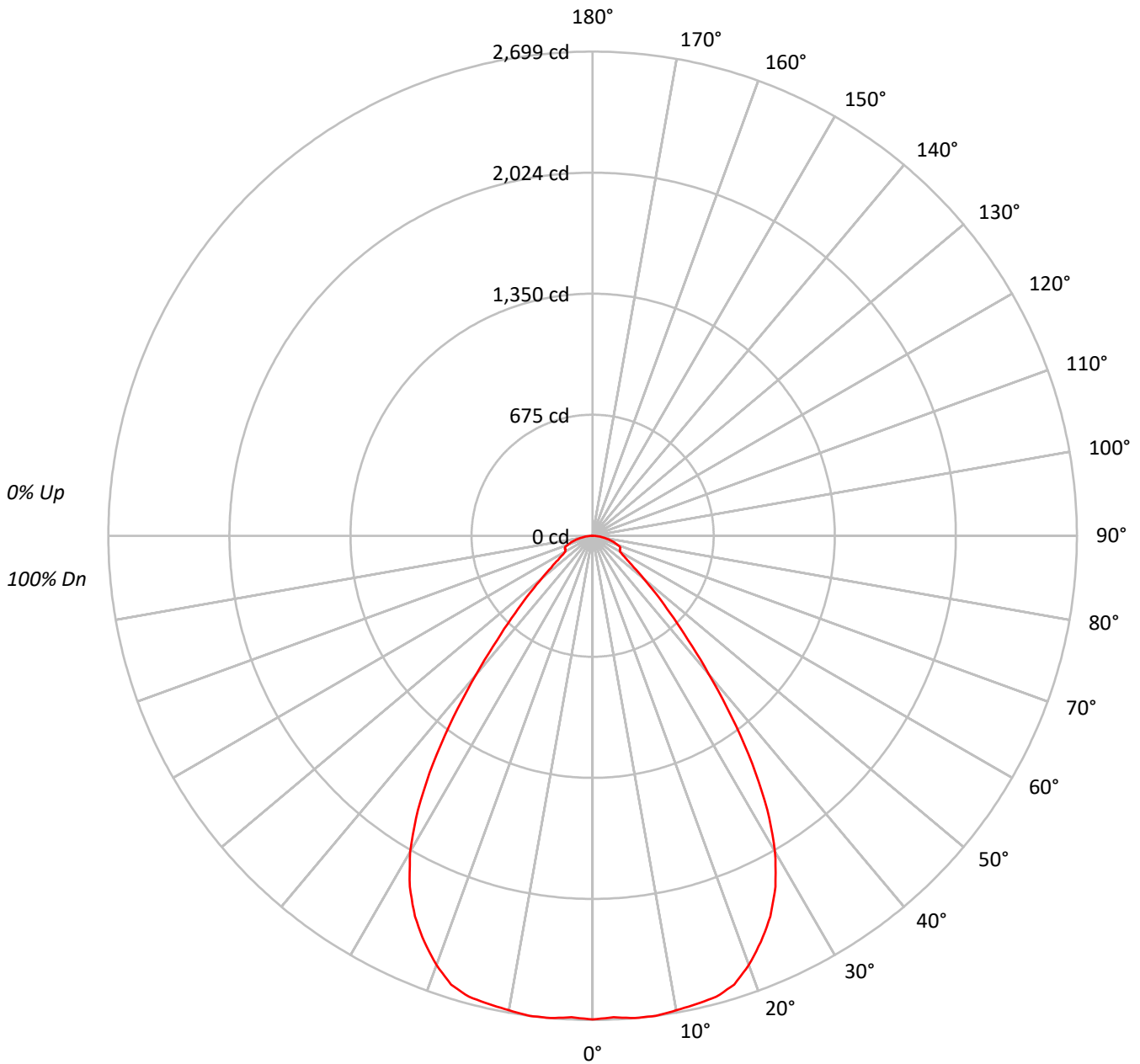
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580778

CATALOG NUMBER: HC445D010-HM44560930-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580778

CATALOG NUMBER: HC445D010-HM44560930-41WDWB

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	332564
5°	334144
10°	336442
15°	339801
20°	334140
25°	318780
30°	289626
35°	233621
40°	162095
45°	106407
50°	71288
55°	50751
60°	43344
65°	49821
70°	53411
75°	51422
80°	46384
85°	42598



TEST NUMBER: P580778

CATALOG NUMBER: HC445D010-HM44560930-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	6.3
10°-20°	747.6	18.5
20°-30°	1068.1	26.4
30°-40°	954.1	23.6
40°-50°	489.3	12.1
50°-60°	222.5	5.5
60°-70°	165.9	4.1
70°-80°	112.9	2.8
80°-90°	33.5	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°	2072.8	51.2
0°-40°	3026.9	74.7
0°-60°	3738.7	92.3
0°-90°	4051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2696	
5°	2699	257
15°	2661	748
25°	2342	1068
35°	1552	954
45°	610	489
55°	236	222
65°	171	166
75°	108	113
85°	30	33
90°	0	



TEST NUMBER: P580778

CATALOG NUMBER: HC445D010-HM44560930-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2696.2
2.5°	2686.2
5°	2698.7
7.5°	2698.7
10°	2686.2
12.5°	2673.6
15°	2661.0
17.5°	2623.5
20°	2545.6
22.5°	2450.2
25°	2342.3
27.5°	2206.6
30°	2033.5
32.5°	1812.6
35°	1551.5
37.5°	1272.8
40°	1006.7
42.5°	785.7
45°	610.0
47.5°	477.0
50°	371.5
52.5°	291.2
55°	236.0
57.5°	198.4
60°	175.7
62.5°	170.7
65°	170.7
67.5°	165.7
70°	148.1
72.5°	128.0
75°	107.9
77.5°	85.4
80°	65.3
82.5°	47.7
85°	30.1
87.5°	12.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)