

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: P580813

Luminaire Tested: **HC445D010-HM44560940-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560940-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3362.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

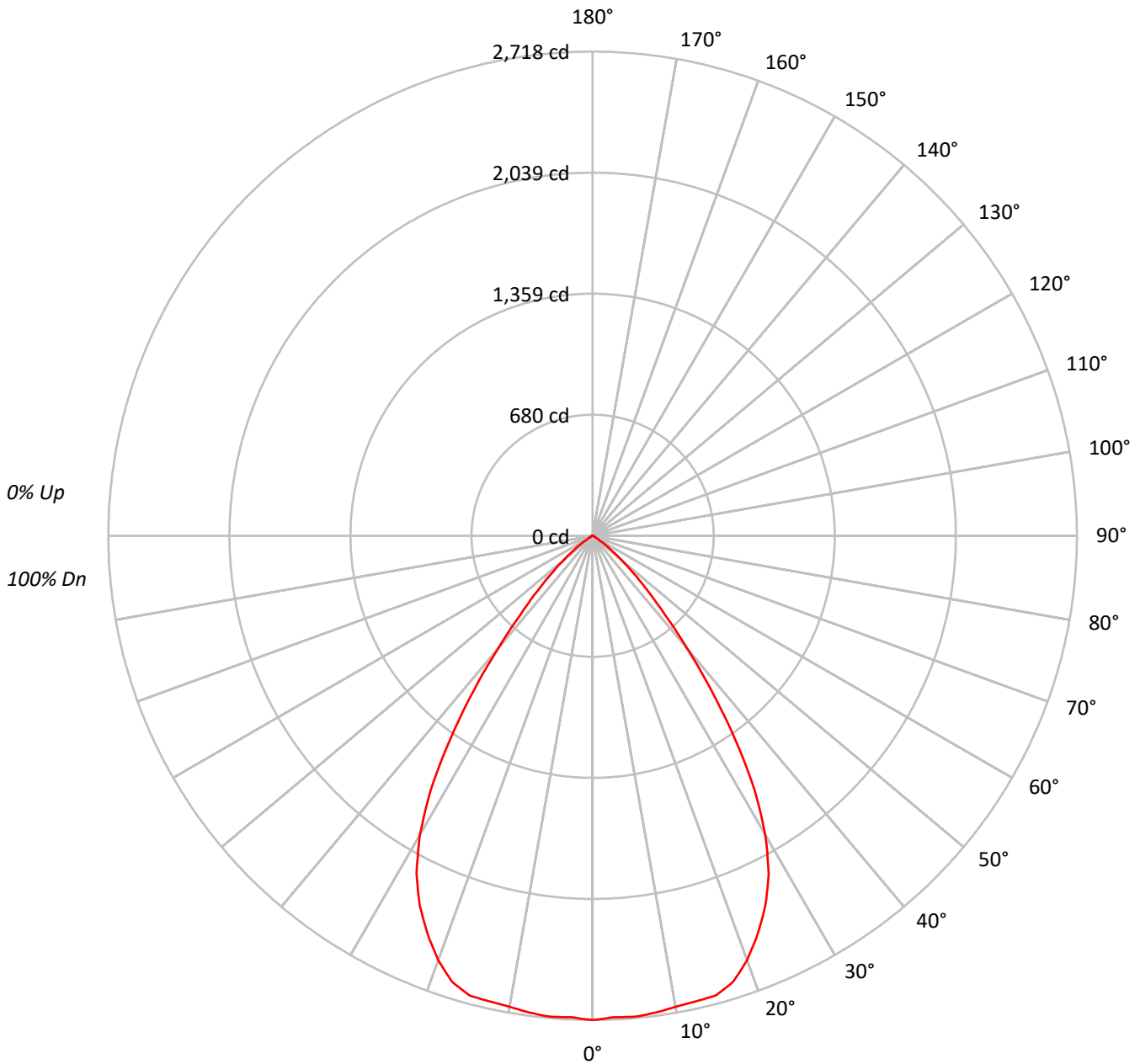
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	335290
5°	335605
10°	336242
15°	341168
20°	332670
25°	312124
30°	276081
35°	209935
40°	132259
45°	75932
50°	40278
55°	16731
60°	4490
65°	3765
70°	2777
75°	2478
80°	1847
85°	3680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	7.7
10°-20°	748.1	22.3
20°-30°	1044.0	31.1
30°-40°	859.2	25.6
40°-50°	353.9	10.5
50°-60°	79.7	2.4
60°-70°	12.8	0.4
70°-80°	4.8	0.1
80°-90°	1.8	0.1
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°	2049.9	61.0
0°-40°	2909.1	86.5
0°-60°	3342.7	99.4
0°-90°	3362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3362.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2718	
5°	2710	258
15°	2672	748
25°	2293	1044
35°	1394	859
45°	435	354
55°	78	80
65°	13	13
75°	5	5
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2718.3
2.5°	2705.4
5°	2710.5
7.5°	2700.2
10°	2684.6
12.5°	2676.9
15°	2671.7
17.5°	2625.0
20°	2534.4
22.5°	2420.3
25°	2293.4
27.5°	2140.4
30°	1938.4
32.5°	1689.5
35°	1394.2
37.5°	1096.2
40°	821.4
42.5°	598.6
45°	435.3
47.5°	310.9
50°	209.9
52.5°	132.2
55°	77.8
57.5°	38.8
60°	18.2
62.5°	15.6
65°	12.9
67.5°	10.3
70°	7.7
72.5°	5.2
75°	5.2
77.5°	2.6
80°	2.6
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)