

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: P580698

Luminaire Tested: **HC445D010-HM44560827-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580698
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: HC445D010-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: 3770.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

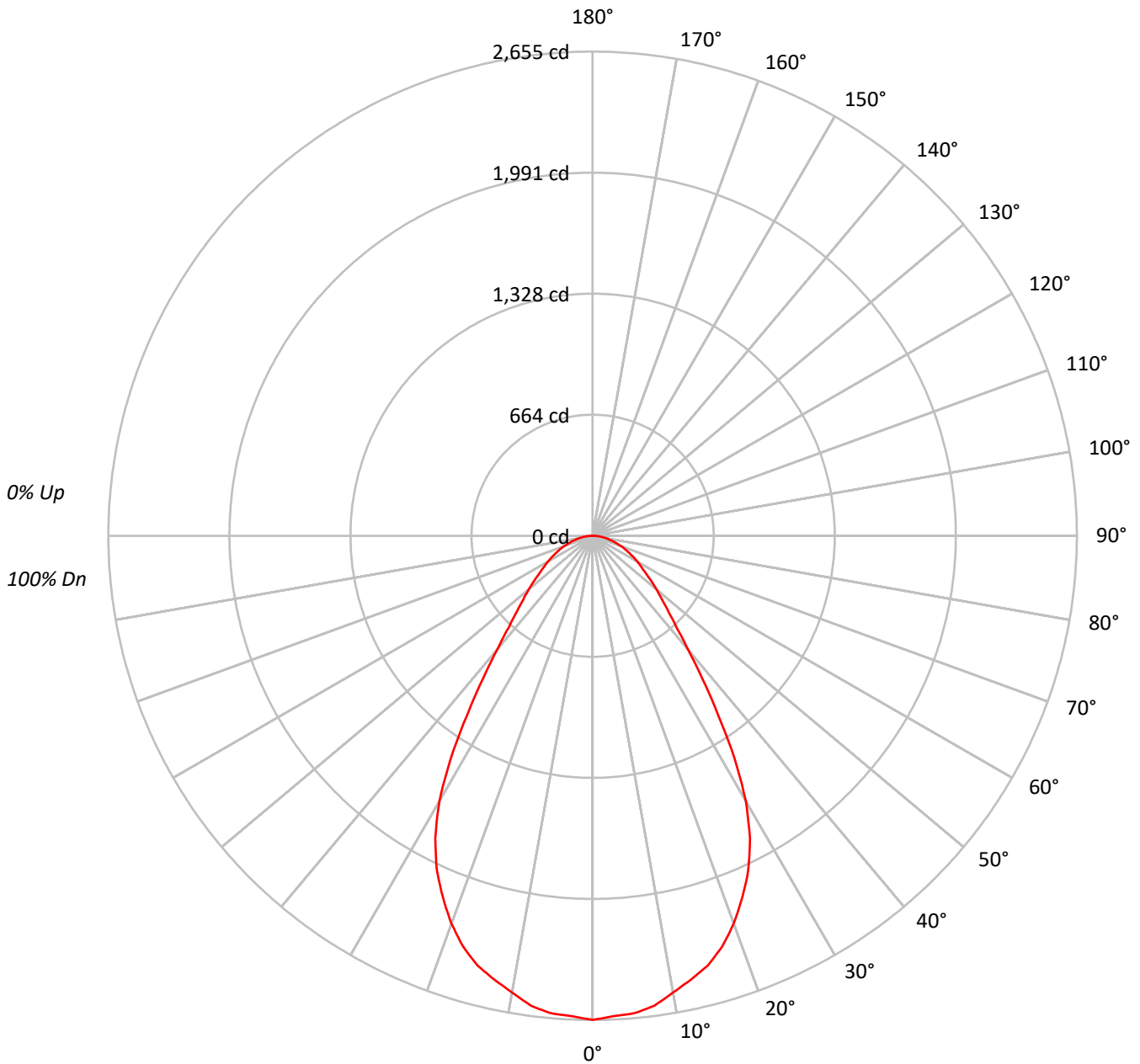
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	327458
5°	325415
10°	318482
15°	311440
20°	297045
25°	274970
30°	239164
35°	180602
40°	130906
45°	102290
50°	87464
55°	75675
60°	69690
65°	63801
70°	59614
75°	54663
80°	51072
85°	49109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	6.6
10°-20°	683.2	18.1
20°-30°	918.6	24.4
30°-40°	755.4	20.0
40°-50°	463.9	12.3
50°-60°	321.0	8.5
60°-70°	218.9	5.8
70°-80°	122.0	3.2
80°-90°	38.8	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°	1850.0	49.1
0°-40°	2605.4	69.1
0°-60°	3390.3	89.9
0°-90°	3770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2655	
5°	2628	248
15°	2439	683
25°	2020	919
35°	1199	755
45°	586	464
55°	352	321
65°	219	219
75°	115	122
85°	35	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2654.8
2.5°	2636.1
5°	2628.2
7.5°	2598.8
10°	2542.8
12.5°	2492.2
15°	2438.9
17.5°	2361.6
20°	2263.0
22.5°	2145.7
25°	2020.4
27.5°	1868.5
30°	1679.2
32.5°	1447.4
35°	1199.4
37.5°	986.2
40°	813.0
42.5°	679.7
45°	586.4
47.5°	514.4
50°	455.8
52.5°	402.5
55°	351.9
57.5°	314.5
60°	282.5
62.5°	250.5
65°	218.6
67.5°	191.9
70°	165.3
72.5°	138.6
75°	114.7
77.5°	90.7
80°	71.9
82.5°	53.3
85°	34.7
87.5°	18.6
90°	0.0



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— 0°-180°







(END OF REPORT)