

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: P580770

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580770
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-HM44560927-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3267.2 lumens
Efficiency: N/A
Efficacy: 74.3 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

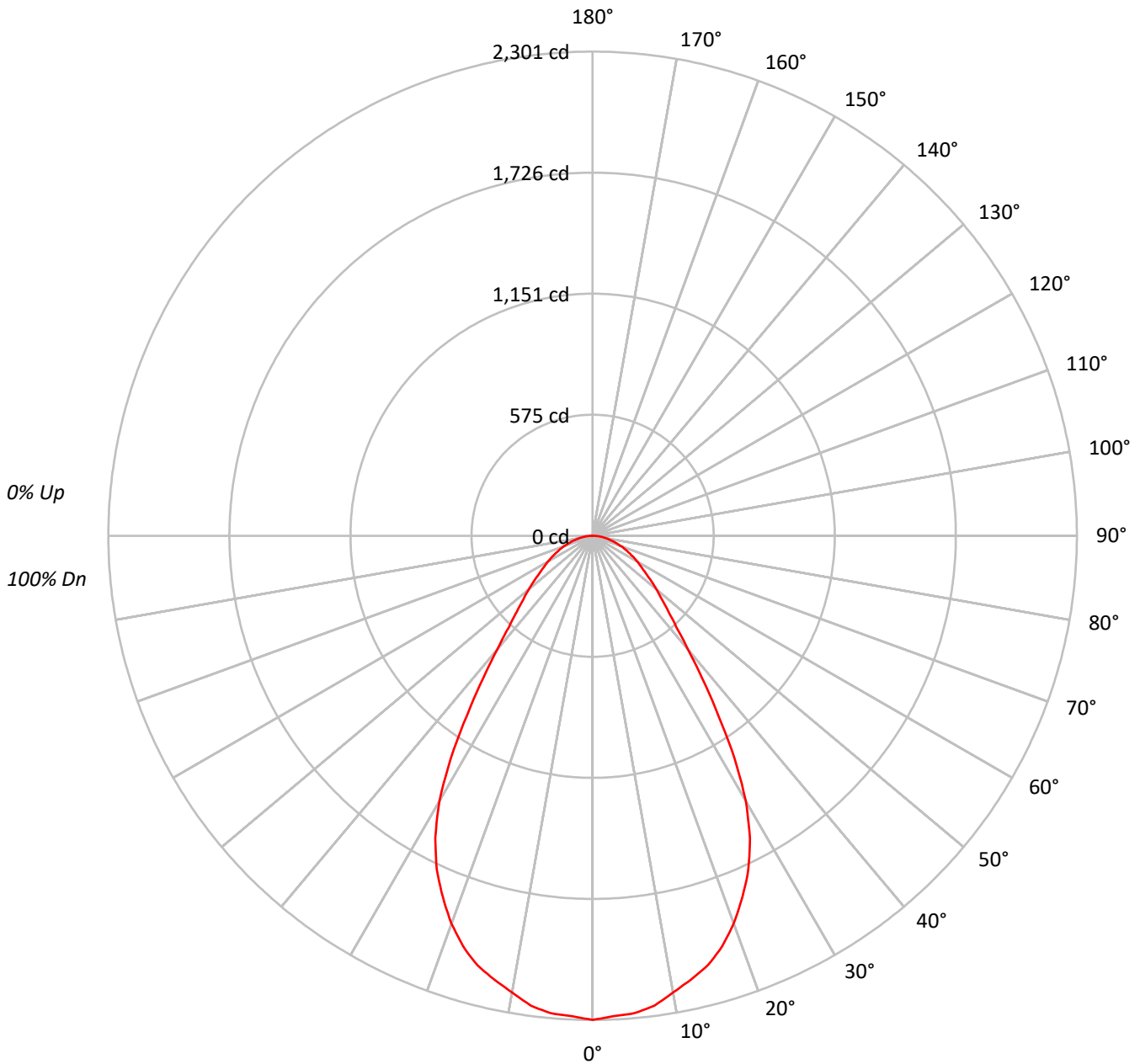
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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°	283794
5°	282017
10°	276010
15°	269900
20°	257417
25°	238306
30°	207274
35°	156525
40°	113436
45°	88649
50°	75816
55°	65589
60°	60390
65°	55278
70°	51643
75°	47323
80°	44324
85°	42598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.1	6.6
10°-20°	592.1	18.1
20°-30°	796.1	24.4
30°-40°	654.6	20.0
40°-50°	402.0	12.3
50°-60°	278.2	8.5
60°-70°	189.6	5.8
70°-80°	105.7	3.2
80°-90°	33.7	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°	1603.3	49.1
0°-40°	2257.9	69.1
0°-60°	2938.2	89.9
0°-90°	3267.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2301	
5°	2278	215
15°	2114	592
25°	1751	796
35°	1040	655
45°	508	402
55°	305	278
65°	189	190
75°	99	106
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2300.8
2.5°	2284.6
5°	2277.7
7.5°	2252.3
10°	2203.7
12.5°	2159.9
15°	2113.6
17.5°	2046.6
20°	1961.1
22.5°	1859.6
25°	1751.0
27.5°	1619.3
30°	1455.3
32.5°	1254.3
35°	1039.5
37.5°	854.7
40°	704.5
42.5°	589.1
45°	508.2
47.5°	445.9
50°	395.1
52.5°	348.8
55°	305.0
57.5°	272.5
60°	244.8
62.5°	217.1
65°	189.4
67.5°	166.3
70°	143.2
72.5°	120.2
75°	99.3
77.5°	78.5
80°	62.4
82.5°	46.2
85°	30.1
87.5°	16.2
90°	0.0



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— 0°-180°







(END OF REPORT)