

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: P580764

Luminaire Tested: **HC4R45D010-HM44560927-42RMDC**

Issue Date: 9/23/2021

Test Information

Test Method: LM-41-14
Report Number: P580764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/23/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC4R45D010-HM44560927-42RMDC
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3583.8 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

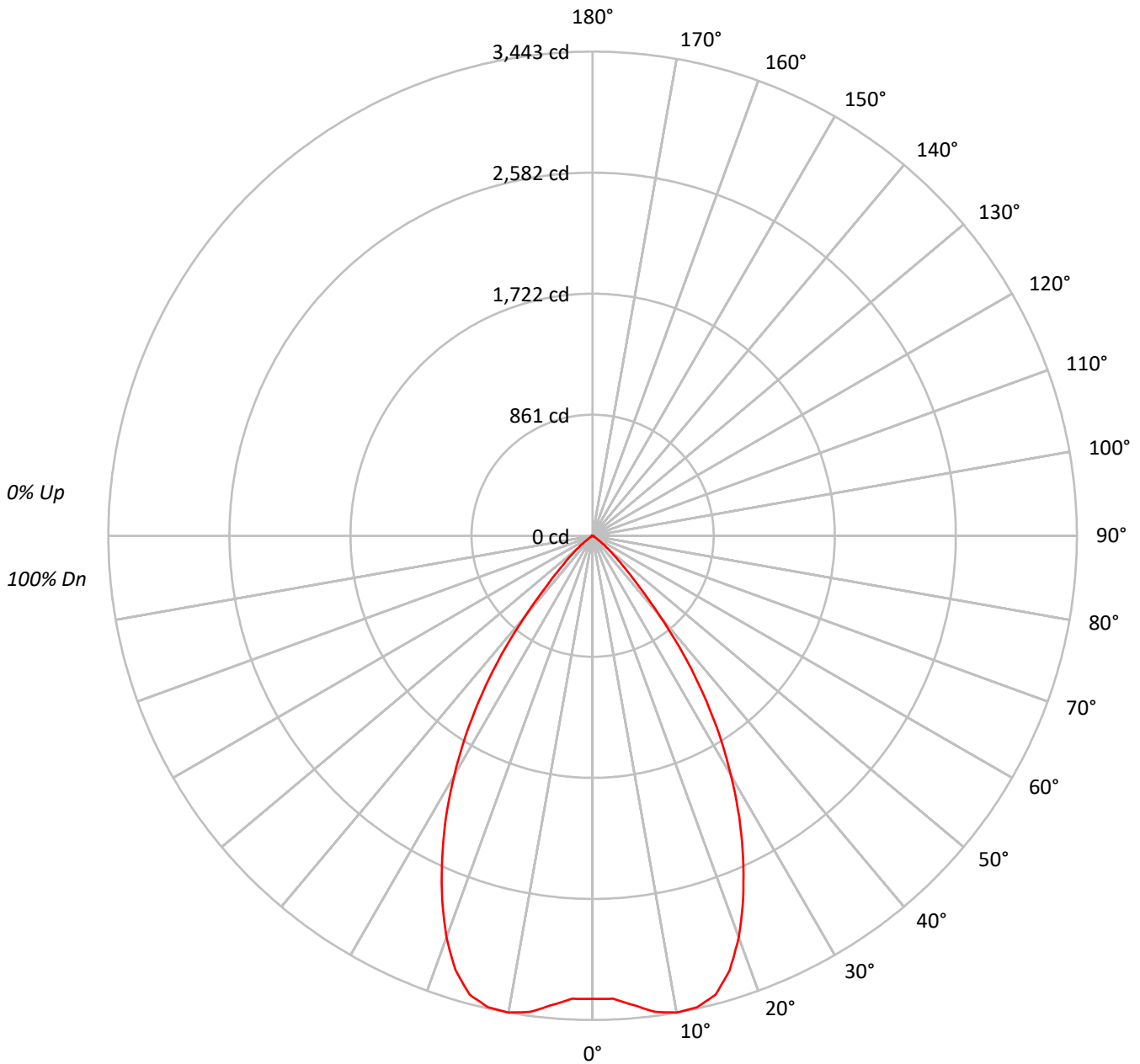
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			
5	92	83	77	73	90	82	76	72	80	75	72	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	406115
5°	414823
10°	431193
15°	431360
20°	398825
25°	344652
30°	280368
35°	205960
40°	119055
45°	55628
50°	25713
55°	8946
60°	2862
65°	2043
70°	1659
75°	1144
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	9.0
10°-20°	936.2	26.1
20°-30°	1152.9	32.2
30°-40°	841.7	23.5
40°-50°	274.3	7.7
50°-60°	45.8	1.3
60°-70°	7.1	0.2
70°-80°	2.5	0.1
80°-90°	0.0	0.0
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°	2412.3	67.3
0°-40°	3254.0	90.8
0°-60°	3574.2	99.7
0°-90°	3583.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3583.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3292	
5°	3350	323
15°	3378	936
25°	2532	1153
35°	1368	842
45°	319	274
55°	42	46
65°	7	7
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3292.5
2.5°	3294.9
5°	3350.3
7.5°	3415.0
10°	3442.7
12.5°	3433.4
15°	3378.0
17.5°	3239.3
20°	3038.4
22.5°	2795.8
25°	2532.4
27.5°	2257.4
30°	1968.5
32.5°	1672.8
35°	1367.8
37.5°	1060.5
40°	739.4
42.5°	482.9
45°	318.9
47.5°	210.3
50°	134.0
52.5°	78.5
55°	41.6
57.5°	16.2
60°	11.6
62.5°	9.2
65°	7.0
67.5°	4.6
70°	4.6
72.5°	2.4
75°	2.4
77.5°	2.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)