

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: P592842

Luminaire Tested: **HC445D010-HM44560850-41MDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560850-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5238.9 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

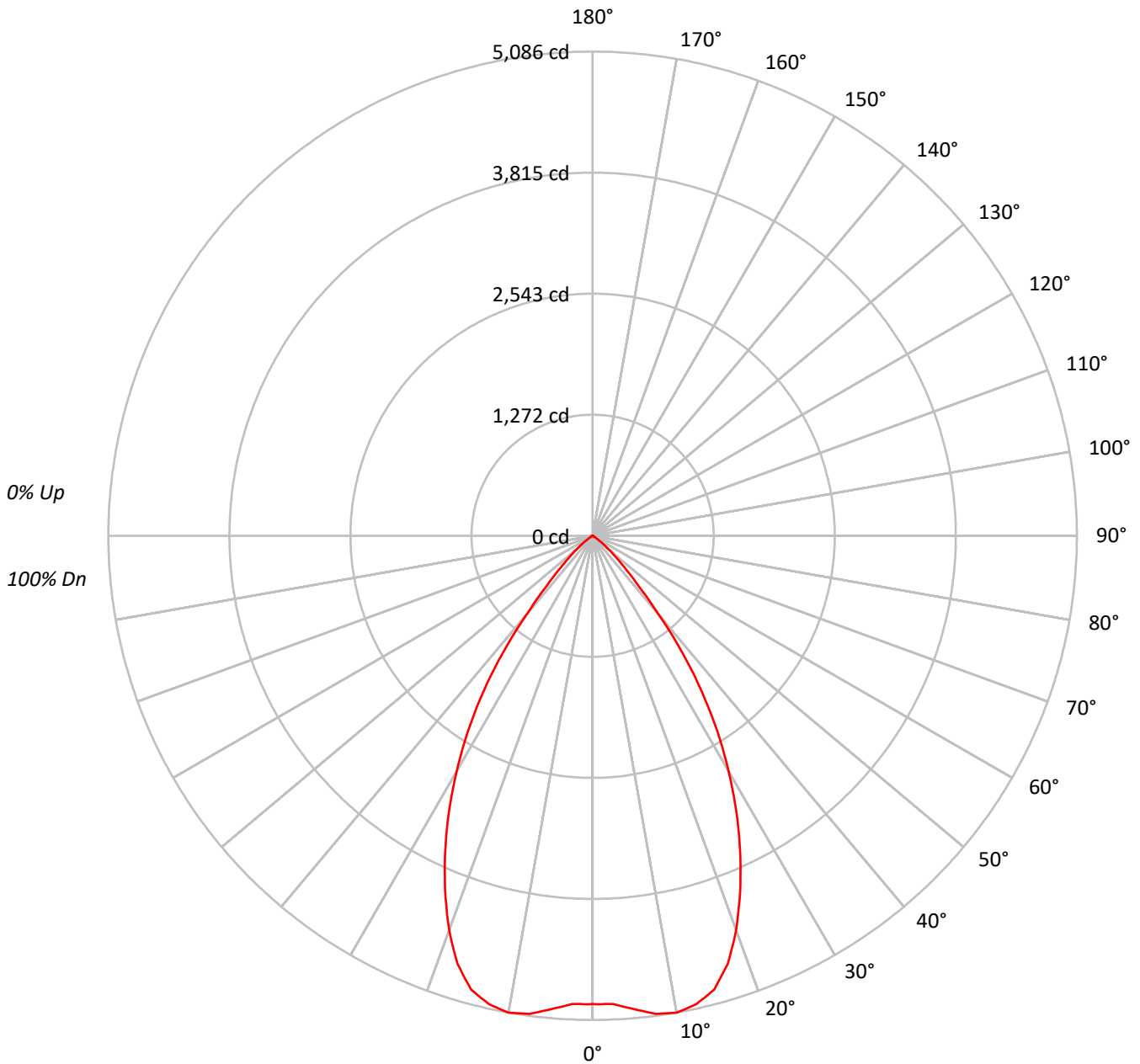
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	98	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	91	83	77	72	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°	606811
5°	617970
10°	637014
15°	629954
20°	578470
25°	499040
30°	406687
35°	301109
40°	172754
45°	83520
50°	39741
55°	13871
60°	5033
65°	2977
70°	2452
75°	1620
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.0	9.2
10°-20°	1367.7	26.1
20°-30°	1670.1	31.9
30°-40°	1227.8	23.4
40°-50°	407.0	7.8
50°-60°	71.9	1.4
60°-70°	10.9	0.2
70°-80°	3.6	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°	3517.8	67.1
0°-40°	4745.6	90.6
0°-60°	5224.4	99.7
0°-90°	5238.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5238.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4920	
5°	4991	480
15°	4933	1368
25°	3667	1670
35°	2000	1228
45°	479	407
55°	64	72
65°	10	11
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4919.6
2.5°	4923.1
5°	4991.0
7.5°	5065.7
10°	5086.0
12.5°	5038.6
15°	4933.2
17.5°	4716.0
20°	4407.0
22.5°	4047.1
25°	3666.8
27.5°	3269.6
30°	2855.4
32.5°	2441.1
35°	1999.7
37.5°	1551.6
40°	1072.9
42.5°	709.6
45°	478.8
47.5°	319.1
50°	207.1
52.5°	122.2
55°	64.5
57.5°	27.2
60°	20.4
62.5°	13.6
65°	10.2
67.5°	6.8
70°	6.8
72.5°	3.4
75°	3.4
77.5°	3.4
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)