

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: P580752

Luminaire Tested: **HC445D010-HM44560840-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580752
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-HM44560840-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4797.9 lumens
Efficiency: N/A
Efficacy: 109.0 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

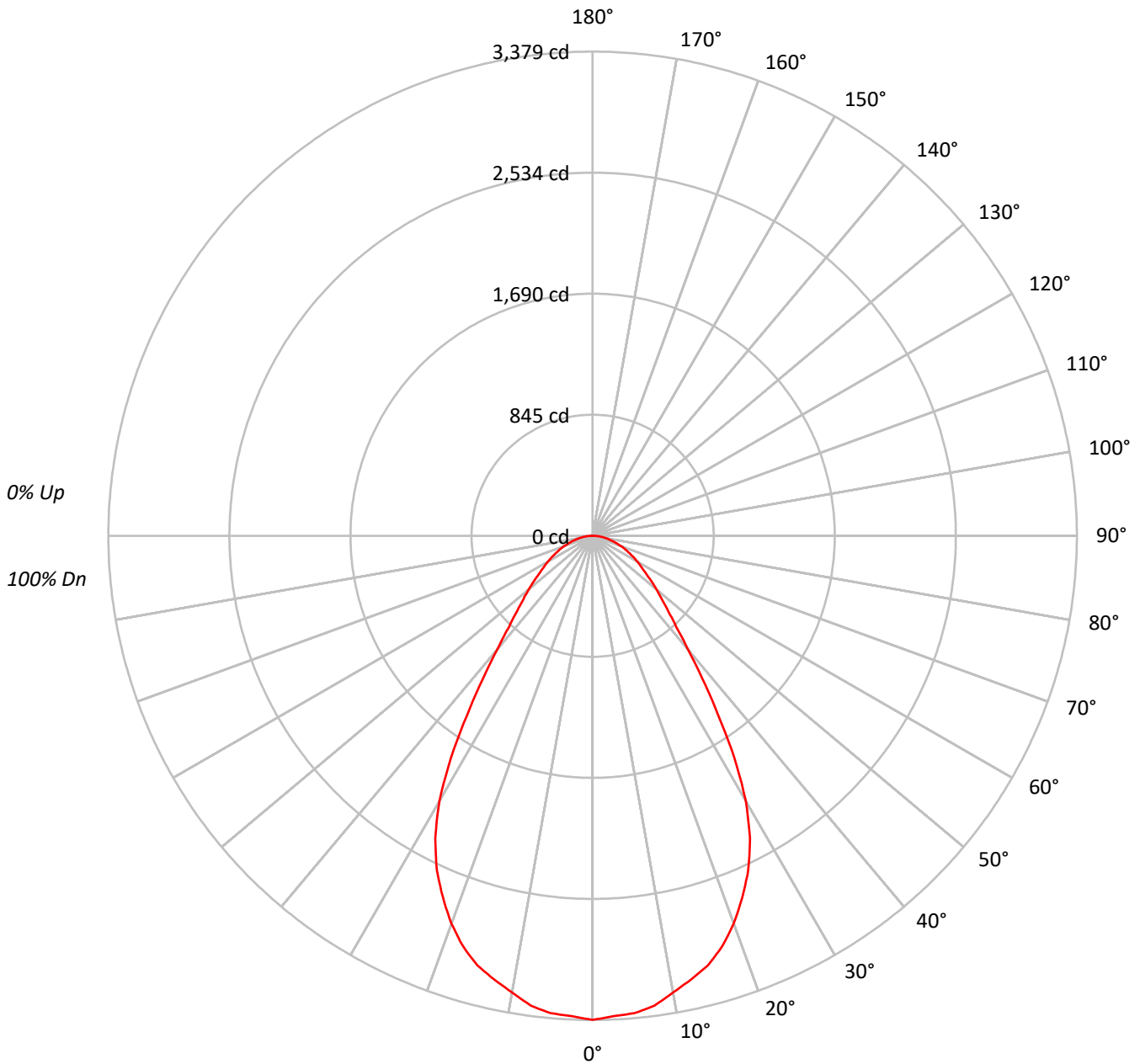
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	416736
5°	414130
10°	405329
15°	396358
20°	378020
25°	349946
30°	304381
35°	229856
40°	166587
45°	130165
50°	111316
55°	96298
60°	88710
65°	81166
70°	75842
75°	69532
80°	65065
85°	62412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	6.6
10°-20°	869.4	18.1
20°-30°	1169.1	24.4
30°-40°	961.3	20.0
40°-50°	590.4	12.3
50°-60°	408.6	8.5
60°-70°	278.5	5.8
70°-80°	155.2	3.2
80°-90°	49.4	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°	2354.5	49.1
0°-40°	3315.8	69.1
0°-60°	4314.7	89.9
0°-90°	4797.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4797.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3379	
5°	3345	316
15°	3104	869
25°	2571	1169
35°	1526	961
45°	746	590
55°	448	409
65°	278	279
75°	146	155
85°	44	49
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3378.6
2.5°	3354.9
5°	3344.7
7.5°	3307.4
10°	3236.2
12.5°	3171.7
15°	3103.9
17.5°	3005.5
20°	2879.9
22.5°	2730.7
25°	2571.3
27.5°	2378.0
30°	2137.1
32.5°	1842.0
35°	1526.5
37.5°	1255.1
40°	1034.6
42.5°	865.1
45°	746.2
47.5°	654.7
50°	580.1
52.5°	512.2
55°	447.8
57.5°	400.3
60°	359.6
62.5°	318.9
65°	278.1
67.5°	244.3
70°	210.3
72.5°	176.4
75°	145.9
77.5°	115.3
80°	91.6
82.5°	67.9
85°	44.1
87.5°	23.8
90°	0.0



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— 0°-180°







(END OF REPORT)