

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: P580788

Luminaire Tested: **HC445D010-HM44560930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580788
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-HM44560930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3549.0 lumens
Efficiency: N/A
Efficacy: 80.7 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

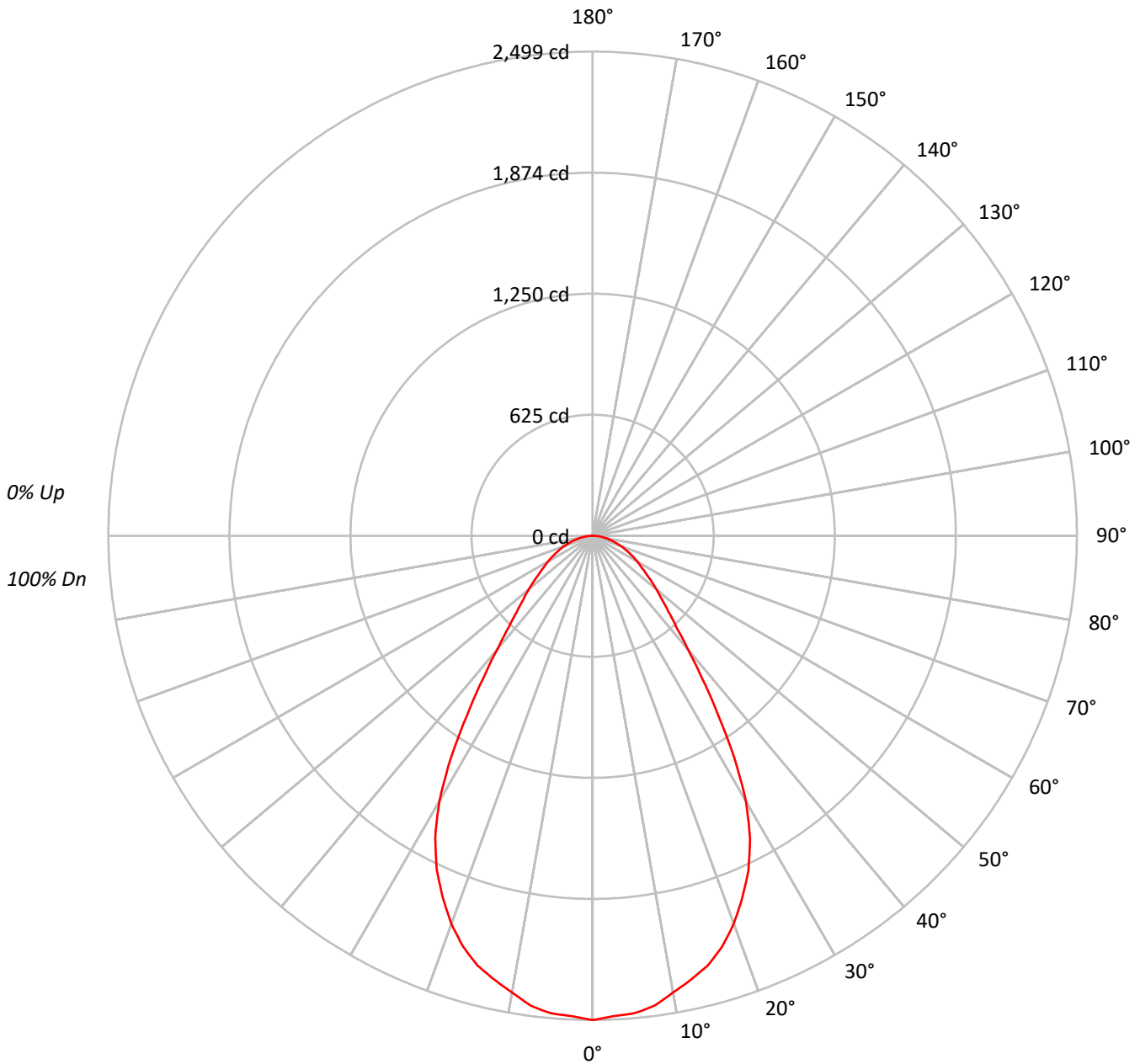
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	308278
5°	306335
10°	299820
15°	293179
20°	279627
25°	258856
30°	225149
35°	170032
40°	123226
45°	96289
50°	82341
55°	71223
60°	65620
65°	60065
70°	56115
75°	51422
80°	48160
85°	46278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	6.6
10°-20°	643.1	18.1
20°-30°	864.8	24.4
30°-40°	711.1	20.0
40°-50°	436.7	12.3
50°-60°	302.2	8.5
60°-70°	206.0	5.8
70°-80°	114.8	3.2
80°-90°	36.6	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°	1741.6	49.1
0°-40°	2452.7	69.1
0°-60°	3191.6	89.9
0°-90°	3549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3549.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2499	
5°	2474	234
15°	2296	643
25°	1902	865
35°	1129	711
45°	552	437
55°	331	302
65°	206	206
75°	108	115
85°	33	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2499.3
2.5°	2481.6
5°	2474.1
7.5°	2446.5
10°	2393.8
12.5°	2346.1
15°	2295.9
17.5°	2223.1
20°	2130.3
22.5°	2019.9
25°	1902.0
27.5°	1759.0
30°	1580.8
32.5°	1362.6
35°	1129.2
37.5°	928.5
40°	765.3
42.5°	639.9
45°	552.0
47.5°	484.3
50°	429.1
52.5°	378.9
55°	331.2
57.5°	296.1
60°	266.0
62.5°	235.8
65°	205.8
67.5°	180.6
70°	155.6
72.5°	130.5
75°	107.9
77.5°	85.3
80°	67.8
82.5°	50.2
85°	32.7
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)