

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: P580781

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560930-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4008.3 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

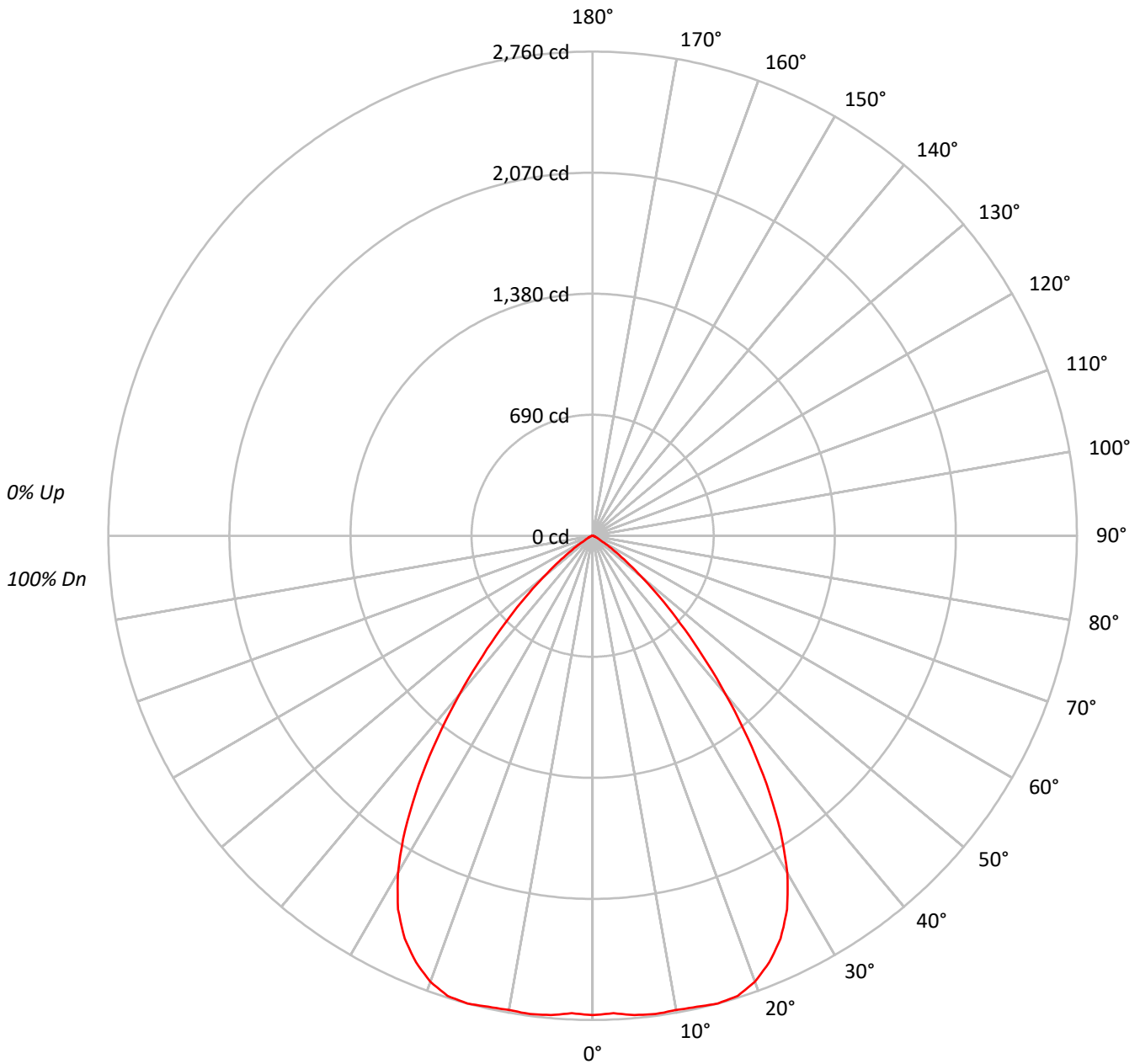
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580781

CATALOG NUMBER: HC445D010-HM44560930-41WDH

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	100	100	100
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	337005
5°	339543
10°	343769
15°	352430
20°	355010
25°	344842
30°	316174
35°	260167
40°	189645
45°	123083
50°	69388
55°	32945
60°	13001
65°	8055
70°	5410
75°	3574
80°	1776
85°	3538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	6.5
10°-20°	778.1	19.4
20°-30°	1154.0	28.8
30°-40°	1065.9	26.6
40°-50°	556.6	13.9
50°-60°	152.5	3.8
60°-70°	29.4	0.7
70°-80°	8.2	0.2
80°-90°	1.7	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°	2193.9	54.7
0°-40°	3259.9	81.3
0°-60°	3969.0	99.0
0°-90°	4008.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2732	
5°	2742	262
15°	2760	778
25°	2534	1154
35°	1728	1066
45°	706	557
55°	153	153
65°	28	29
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2732.2
2.5°	2724.7
5°	2742.3
7.5°	2749.8
10°	2744.7
12.5°	2749.8
15°	2759.9
17.5°	2749.8
20°	2704.6
22.5°	2631.8
25°	2533.8
27.5°	2400.7
30°	2219.9
32.5°	1991.4
35°	1727.8
37.5°	1451.5
40°	1177.8
42.5°	926.7
45°	705.6
47.5°	517.4
50°	361.6
52.5°	241.1
55°	153.2
57.5°	90.4
60°	52.7
62.5°	37.7
65°	27.6
67.5°	20.1
70°	15.0
72.5°	10.1
75°	7.5
77.5°	5.0
80°	2.5
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)