

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: P584683

Luminaire Tested: **HC845D010-HM82555835-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555835-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5069.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

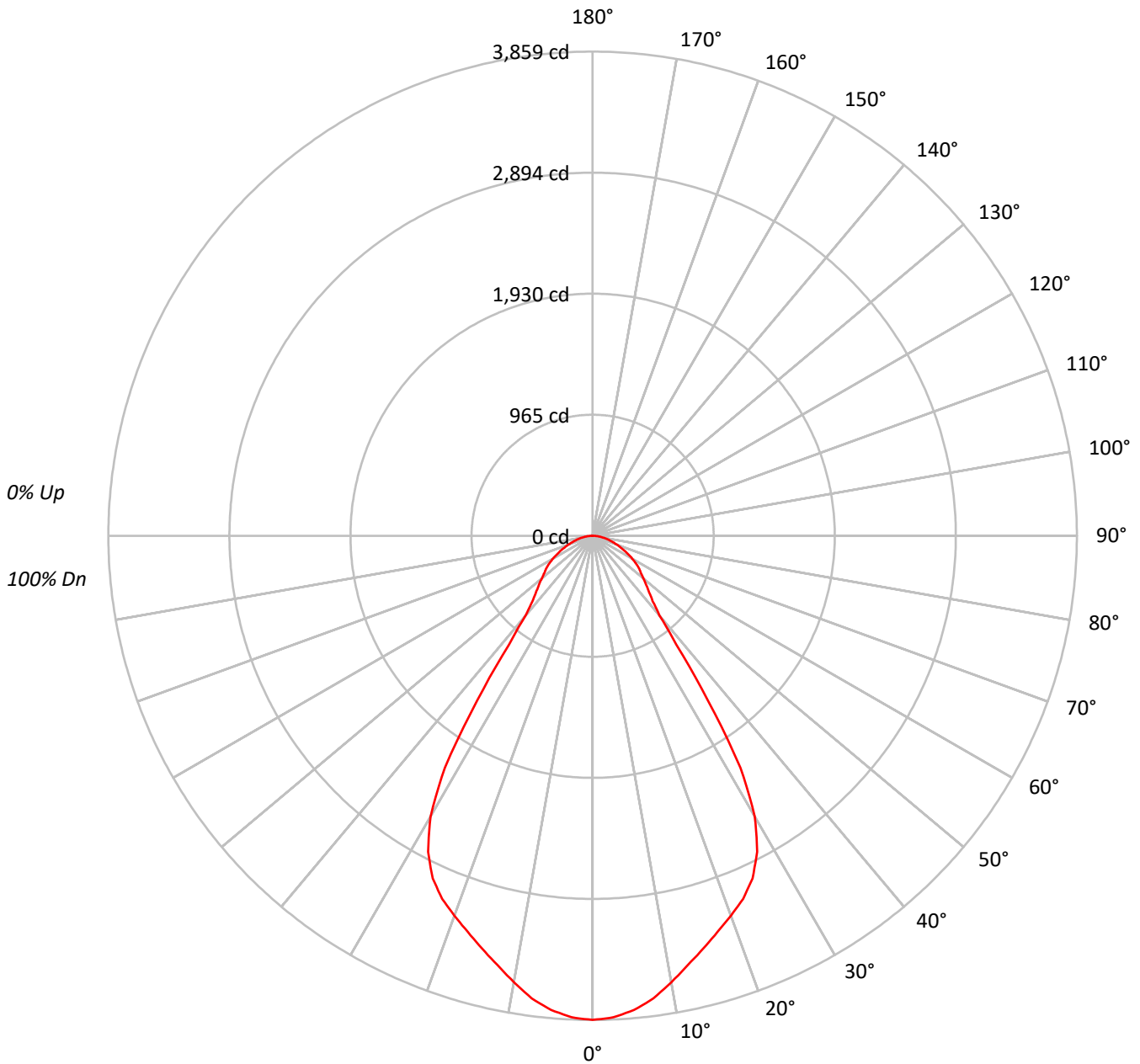
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118985
5°	117434
10°	113137
15°	108708
20°	105705
25°	102525
30°	92001
35°	60310
40°	33342
45°	27796
50°	25344
55°	24193
60°	22492
65°	20394
70°	18447
75°	16644
80°	15130
85°	14471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.5	7.0
10°-20°	960.7	19.0
20°-30°	1367.3	27.0
30°-40°	1012.0	20.0
40°-50°	501.2	9.9
50°-60°	400.0	7.9
60°-70°	277.7	5.5
70°-80°	149.6	3.0
80°-90°	44.0	0.9
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°	2684.5	53.0
0°-40°	3696.4	72.9
0°-60°	4597.6	90.7
0°-90°	5069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3859	
5°	3794	356
15°	3405	961
25°	3013	1367
35°	1602	1012
45°	637	501
55°	450	400
65°	280	278
75°	140	150
85°	41	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3858.6
2.5°	3841.6
5°	3793.8
7.5°	3718.9
10°	3613.2
12.5°	3504.1
15°	3405.2
17.5°	3309.9
20°	3221.2
22.5°	3132.6
25°	3013.3
27.5°	2839.5
30°	2583.8
32.5°	2191.8
35°	1602.1
37.5°	1094.2
40°	828.3
42.5°	709.0
45°	637.4
47.5°	579.5
50°	528.3
52.5°	484.0
55°	450.0
57.5°	409.0
60°	364.7
62.5°	320.5
65°	279.5
67.5°	238.6
70°	204.6
72.5°	170.4
75°	139.7
77.5°	112.5
80°	85.2
82.5°	61.3
85°	40.9
87.5°	17.0
90°	0.0



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— 0°-180°







(END OF REPORT)