

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: P584705

Luminaire Tested: **HC845D010-HM82555840-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555840-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5874.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

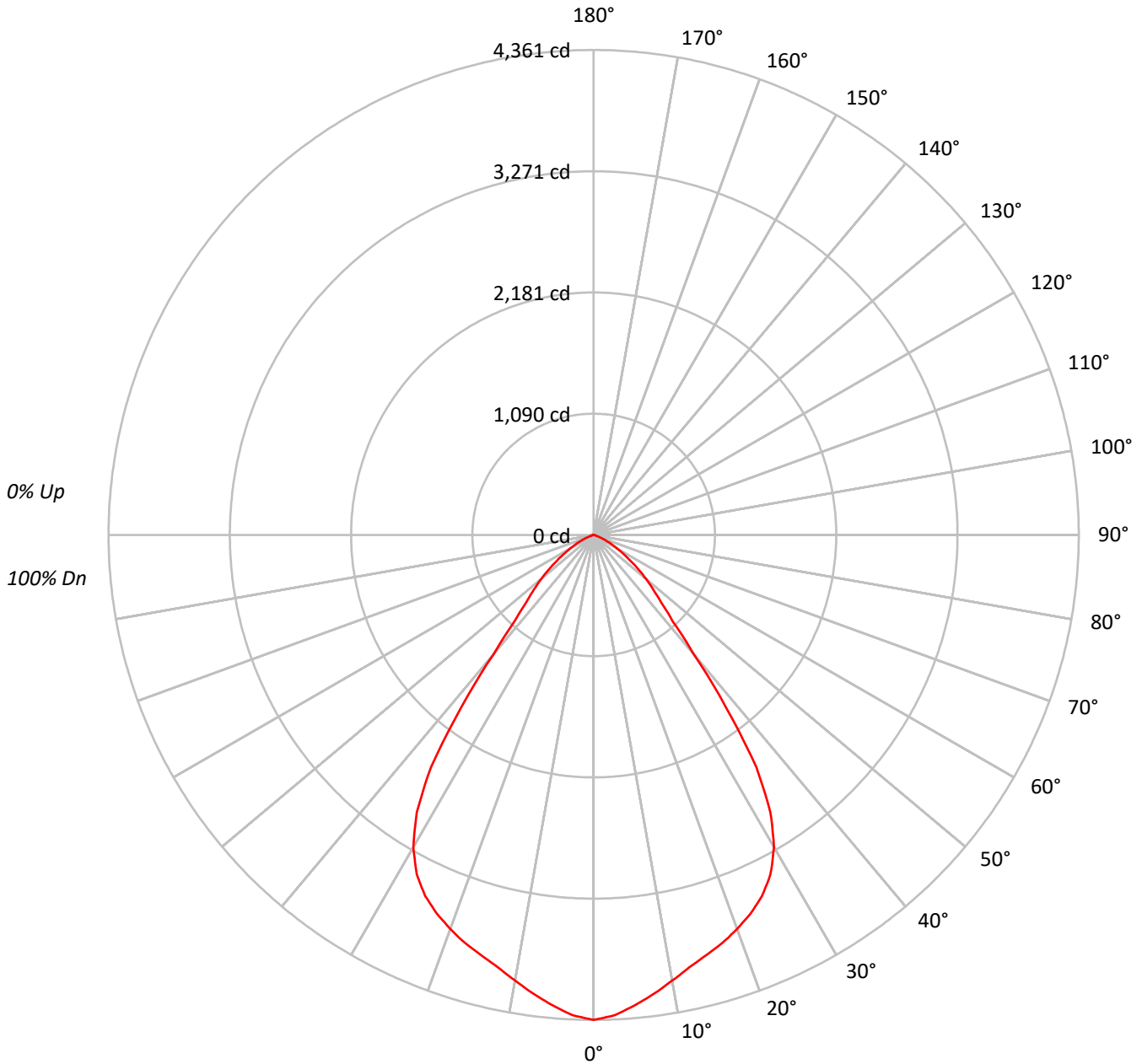
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			62
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			57
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134480
5°	131450
10°	127421
15°	124839
20°	123724
25°	121871
30°	115444
35°	95917
40°	56488
45°	37364
50°	29407
55°	21639
60°	15030
65°	9157
70°	3994
75°	1763
80°	1314
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.9	6.8
10°-20°	1105.6	18.8
20°-30°	1638.0	27.9
30°-40°	1513.6	25.8
40°-50°	697.9	11.9
50°-60°	367.0	6.2
60°-70°	129.7	2.2
70°-80°	20.3	0.3
80°-90°	2.0	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°	3143.5	53.5
0°-40°	4657.0	79.3
0°-60°	5722.0	97.4
0°-90°	5874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5874.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4361	
5°	4247	400
15°	3910	1106
25°	3582	1638
35°	2548	1514
45°	857	698
55°	402	367
65°	126	130
75°	15	20
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4361.1
2.5°	4324.1
5°	4246.6
7.5°	4161.7
10°	4069.4
12.5°	3980.7
15°	3910.5
17.5°	3847.8
20°	3770.3
22.5°	3685.3
25°	3581.9
27.5°	3441.6
30°	3242.2
32.5°	2957.8
35°	2548.0
37.5°	1957.2
40°	1403.3
42.5°	1052.4
45°	856.8
47.5°	727.5
50°	613.0
52.5°	502.2
55°	402.5
57.5°	317.5
60°	243.7
62.5°	184.6
65°	125.5
67.5°	73.9
70°	44.3
72.5°	25.8
75°	14.8
77.5°	11.0
80°	7.4
82.5°	3.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)