

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: P584411

Luminaire Tested: **HC835D010-HM82555835-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584411
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: HC835D010-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: 4109.9 lumens
Efficiency: N/A
Efficacy: 122.0 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

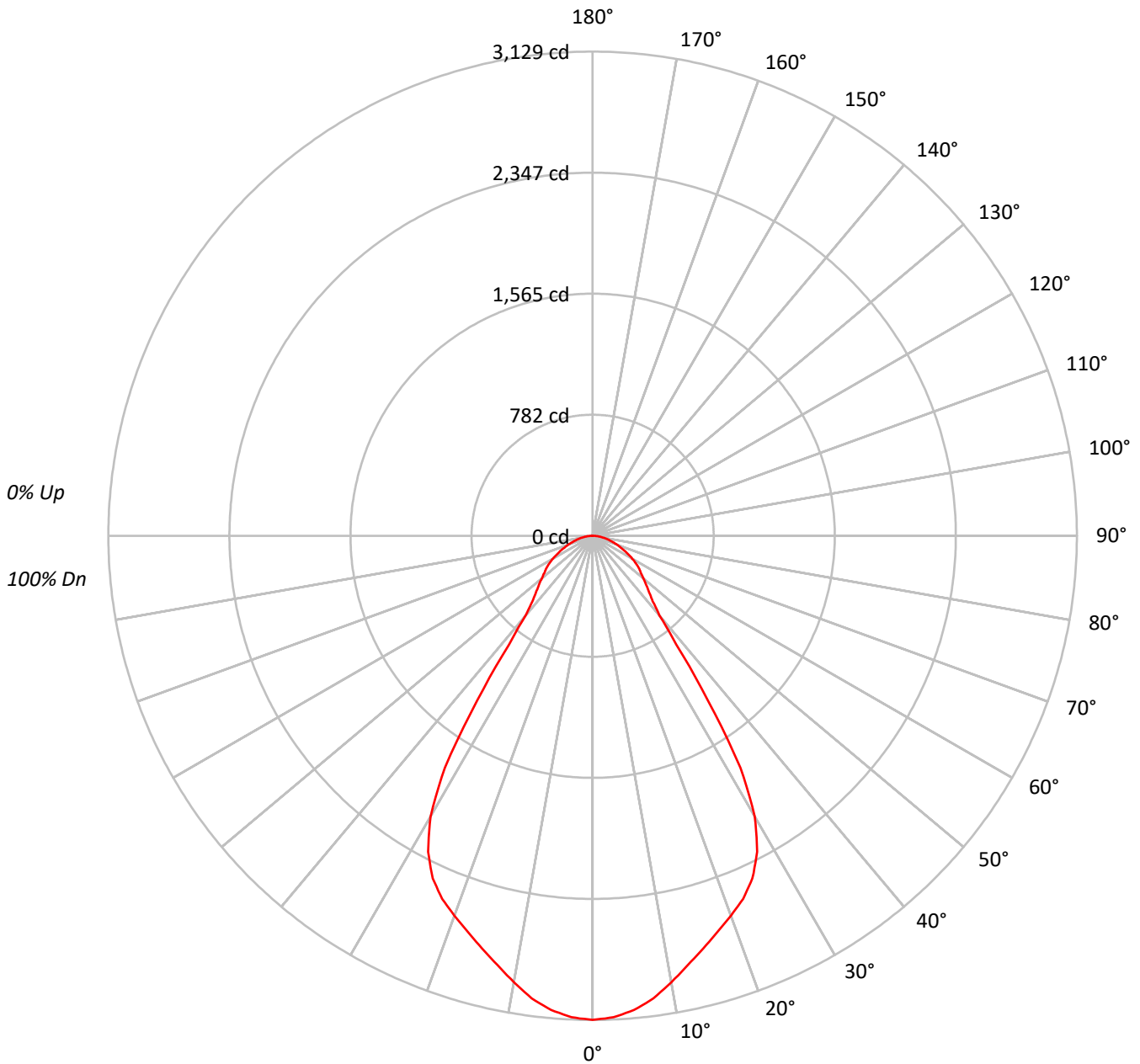
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96474
5°	95215
10°	91732
15°	88139
20°	85707
25°	83124
30°	74592
35°	48900
40°	27035
45°	22537
50°	20552
55°	19612
60°	18237
65°	16541
70°	14948
75°	13499
80°	12271
85°	11746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.0	7.0
10°-20°	778.9	19.0
20°-30°	1108.6	27.0
30°-40°	820.5	20.0
40°-50°	406.4	9.9
50°-60°	324.3	7.9
60°-70°	225.2	5.5
70°-80°	121.3	3.0
80°-90°	35.7	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°	2176.5	53.0
0°-40°	2997.0	72.9
0°-60°	3727.7	90.7
0°-90°	4109.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4109.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3129	
5°	3076	289
15°	2761	779
25°	2443	1109
35°	1299	820
45°	517	406
55°	365	324
65°	227	225
75°	113	121
85°	33	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3128.6
2.5°	3114.7
5°	3076.0
7.5°	3015.2
10°	2929.6
12.5°	2841.1
15°	2760.9
17.5°	2683.5
20°	2611.8
22.5°	2539.9
25°	2443.1
27.5°	2302.2
30°	2094.9
32.5°	1777.1
35°	1299.0
37.5°	887.1
40°	671.6
42.5°	574.8
45°	516.8
47.5°	469.9
50°	428.4
52.5°	392.5
55°	364.8
57.5°	331.6
60°	295.7
62.5°	259.8
65°	226.7
67.5°	193.5
70°	165.8
72.5°	138.1
75°	113.3
77.5°	91.2
80°	69.1
82.5°	49.7
85°	33.2
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)