

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: P584410

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3700.8 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

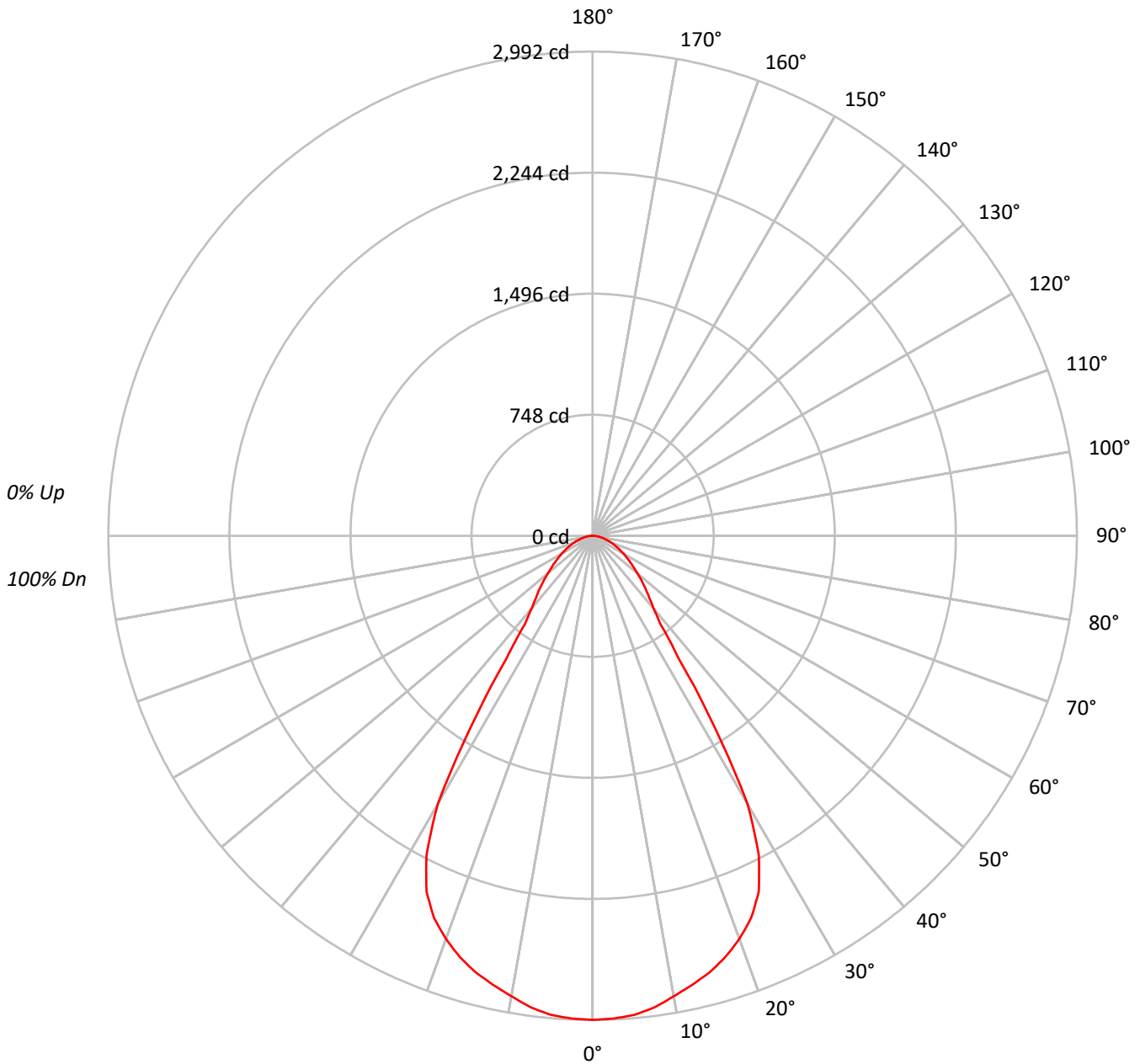
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																											
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81																											
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																											
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67																											
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																											
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																											
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52																											
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																											
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																											
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	92247
5°	91999
10°	90467
15°	89145
20°	87007
25°	82594
30°	68123
35°	35073
40°	23480
45°	20134
50°	17376
55°	15161
60°	13469
65°	12105
70°	10963
75°	9877
80°	8826
85°	8810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.0	7.6
10°-20°	785.6	21.2
20°-30°	1088.6	29.4
30°-40°	653.8	17.7
40°-50°	357.9	9.7
50°-60°	254.3	6.9
60°-70°	165.0	4.5
70°-80°	88.2	2.4
80°-90°	26.3	0.7
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°	2155.2	58.2
0°-40°	2809.0	75.9
0°-60°	3421.2	92.4
0°-90°	3700.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3700.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2992	
5°	2972	281
15°	2792	786
25°	2428	1089
35°	932	654
45°	462	358
55°	282	254
65°	166	165
75°	83	88
85°	25	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2991.5
2.5°	2985.9
5°	2972.1
7.5°	2938.9
10°	2889.2
12.5°	2842.1
15°	2792.4
17.5°	2728.8
20°	2651.4
22.5°	2557.4
25°	2427.5
27.5°	2222.9
30°	1913.2
32.5°	1401.8
35°	931.7
37.5°	688.4
40°	583.3
42.5°	517.1
45°	461.7
47.5°	409.2
50°	362.2
52.5°	317.9
55°	282.0
57.5°	248.8
60°	218.4
62.5°	190.7
65°	165.9
67.5°	141.0
70°	121.6
72.5°	99.6
75°	82.9
77.5°	66.4
80°	49.7
82.5°	35.9
85°	24.9
87.5°	11.0
90°	0.0



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— 0°-180°







(END OF REPORT)