

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: P584945

Luminaire Tested: **HC855D010-HM82555830-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5839.8 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

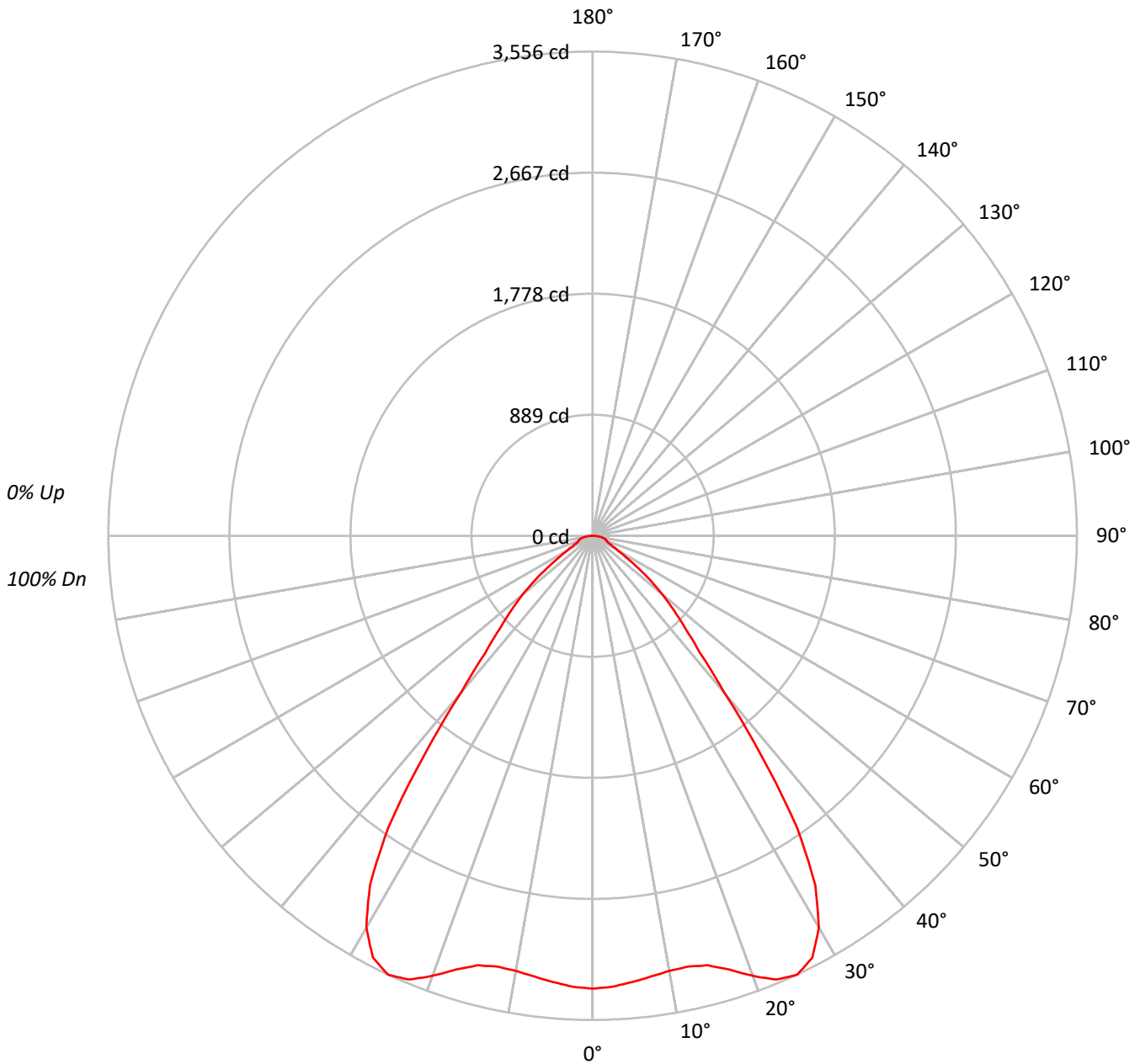
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102562
5°	101854
10°	101589
15°	104255
20°	112868
25°	121003
30°	118300
35°	98507
40°	60518
45°	41904
50°	31979
55°	20967
60°	13118
65°	9836
70°	9909
75°	11414
80°	12590
85°	11286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.7	5.4
10°-20°	937.5	16.1
20°-30°	1613.9	27.6
30°-40°	1563.6	26.8
40°-50°	770.1	13.2
50°-60°	363.4	6.2
60°-70°	143.2	2.5
70°-80°	98.8	1.7
80°-90°	36.7	0.6
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°	2864.0	49.0
0°-40°	4427.6	75.8
0°-60°	5561.1	95.2
0°-90°	5839.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5839.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3326	
5°	3290	313
15°	3266	937
25°	3556	1614
35°	2617	1564
45°	961	770
55°	390	363
65°	135	143
75°	96	99
85°	32	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3326.0
2.5°	3315.4
5°	3290.5
7.5°	3265.7
10°	3244.4
12.5°	3240.9
15°	3265.7
17.5°	3340.2
20°	3439.5
22.5°	3528.1
25°	3556.4
27.5°	3492.7
30°	3322.4
32.5°	3042.3
35°	2616.8
37.5°	2031.8
40°	1503.4
42.5°	1166.6
45°	960.9
47.5°	808.4
50°	666.6
52.5°	524.8
55°	390.0
57.5°	283.6
60°	212.7
62.5°	166.7
65°	134.8
67.5°	117.0
70°	109.9
72.5°	102.8
75°	95.8
77.5°	85.1
80°	70.9
82.5°	53.2
85°	31.9
87.5°	14.2
90°	0.0



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— 0°-180°







(END OF REPORT)