

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: P584928

Luminaire Tested: **HC855D010-HM82555827-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584928
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-HM82555827-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5980.2 lumens
Efficiency: N/A
Efficacy: 115.0 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

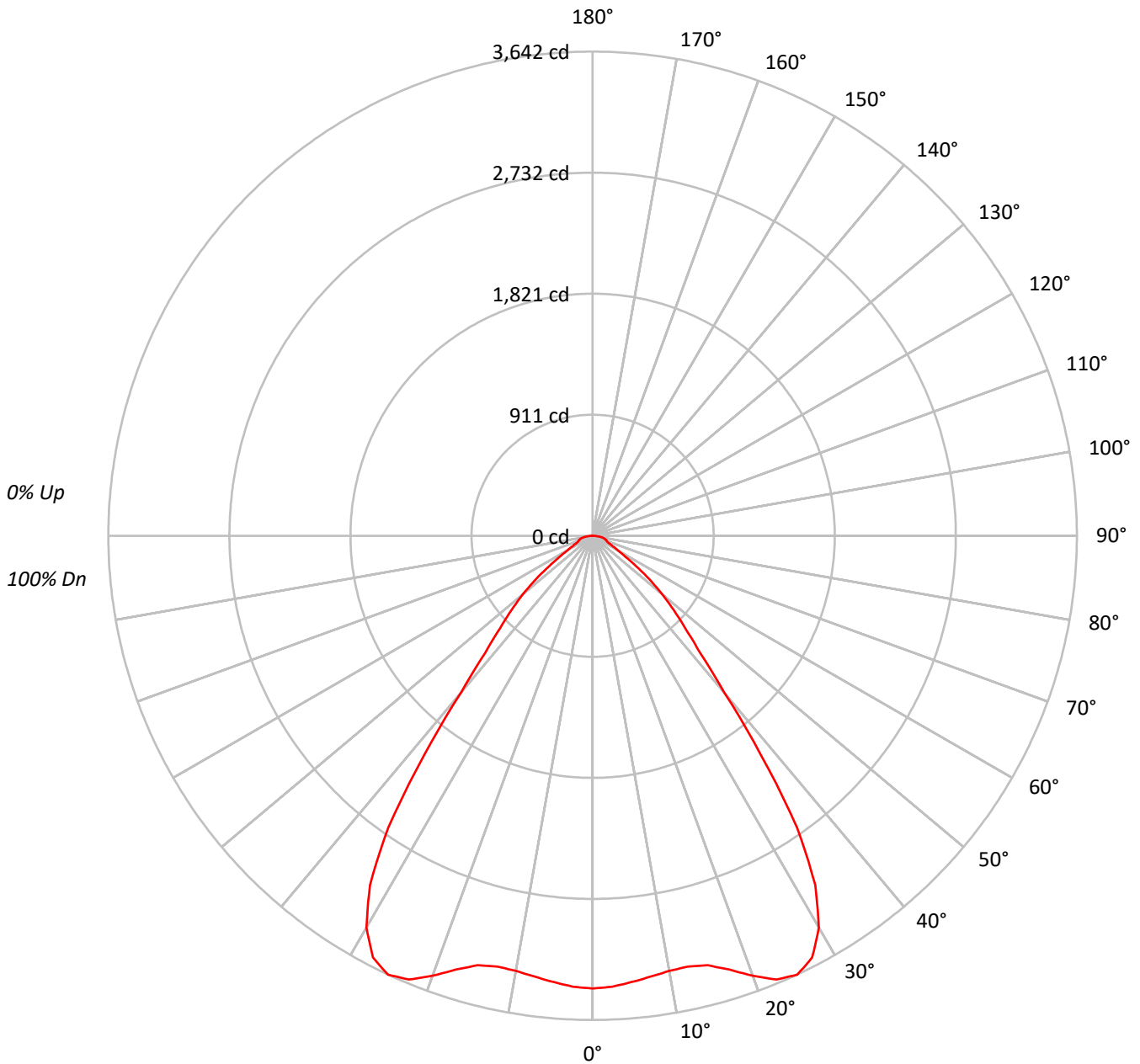
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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°	105025
5°	104303
10°	104034
15°	106764
20°	115582
25°	123916
30°	121145
35°	100879
40°	61971
45°	42911
50°	32751
55°	21472
60°	13438
65°	10062
70°	10143
75°	11688
80°	12910
85°	11569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.2	5.4
10°-20°	960.0	16.1
20°-30°	1652.7	27.6
30°-40°	1601.2	26.8
40°-50°	788.7	13.2
50°-60°	372.2	6.2
60°-70°	146.6	2.5
70°-80°	101.2	1.7
80°-90°	37.6	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°	2932.9	49.0
0°-40°	4534.1	75.8
0°-60°	5694.9	95.2
0°-90°	5980.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5980.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3406	
5°	3370	320
15°	3344	960
25°	3642	1653
35°	2680	1601
45°	984	789
55°	399	372
65°	138	147
75°	98	101
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3405.9
2.5°	3395.0
5°	3369.6
7.5°	3344.3
10°	3322.5
12.5°	3318.9
15°	3344.3
17.5°	3420.5
20°	3522.2
22.5°	3612.9
25°	3642.0
27.5°	3576.6
30°	3402.3
32.5°	3115.5
35°	2679.8
37.5°	2080.7
40°	1539.5
42.5°	1194.6
45°	984.0
47.5°	827.9
50°	682.7
52.5°	537.4
55°	399.4
57.5°	290.5
60°	217.9
62.5°	170.6
65°	137.9
67.5°	119.8
70°	112.5
72.5°	105.2
75°	98.1
77.5°	87.2
80°	72.7
82.5°	54.5
85°	32.7
87.5°	14.5
90°	0.0



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— 0°-180°







(END OF REPORT)