

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: P584938

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584938
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: HC855D010-HM82555830-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5272.5 lumens
Efficiency: N/A
Efficacy: 101.4 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

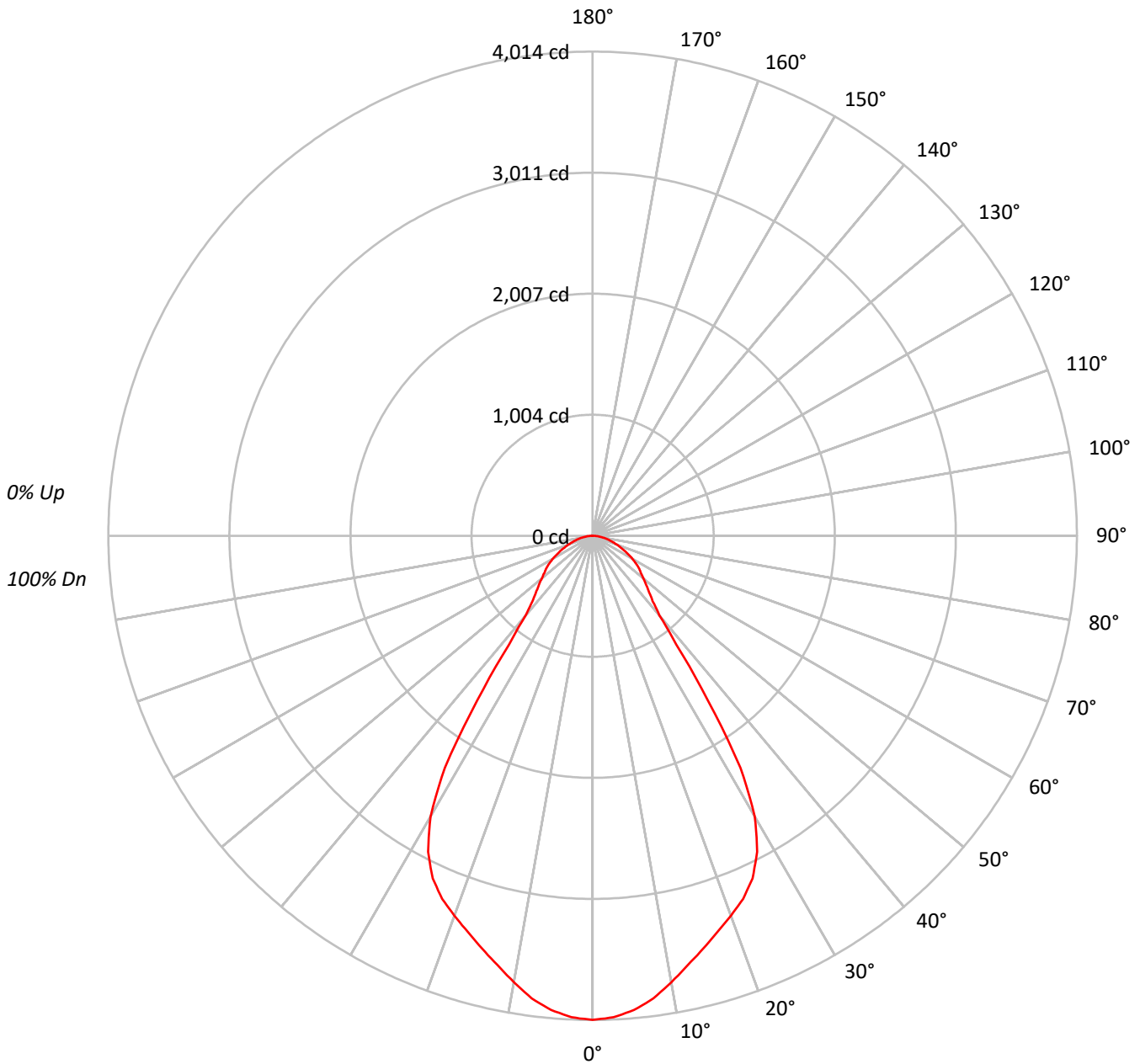
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	123762
5°	122148
10°	117680
15°	113075
20°	109948
25°	106642
30°	95693
35°	62727
40°	34679
45°	28913
50°	26366
55°	25160
60°	23399
65°	21218
70°	19177
75°	17311
80°	15734
85°	15037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.8	7.0
10°-20°	999.3	19.0
20°-30°	1422.2	27.0
30°-40°	1052.6	20.0
40°-50°	521.3	9.9
50°-60°	416.1	7.9
60°-70°	288.9	5.5
70°-80°	155.6	3.0
80°-90°	45.8	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°	2792.2	53.0
0°-40°	3844.8	72.9
0°-60°	4782.2	90.7
0°-90°	5272.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5272.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4014	
5°	3946	371
15°	3542	999
25°	3134	1422
35°	1666	1053
45°	663	521
55°	468	416
65°	291	289
75°	145	156
85°	42	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4013.5
2.5°	3995.8
5°	3946.1
7.5°	3868.2
10°	3758.3
12.5°	3644.8
15°	3542.0
17.5°	3442.6
20°	3350.5
22.5°	3258.3
25°	3134.3
27.5°	2953.4
30°	2687.5
32.5°	2279.8
35°	1666.3
37.5°	1138.1
40°	861.5
42.5°	737.4
45°	663.0
47.5°	602.8
50°	549.6
52.5°	503.5
55°	468.0
57.5°	425.4
60°	379.4
62.5°	333.3
65°	290.8
67.5°	248.2
70°	212.7
72.5°	177.3
75°	145.3
77.5°	117.0
80°	88.6
82.5°	63.9
85°	42.5
87.5°	17.7
90°	0.0



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— 0°-180°







(END OF REPORT)