

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: P584920

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584920
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: HC855D010-HM82555827-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4862.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

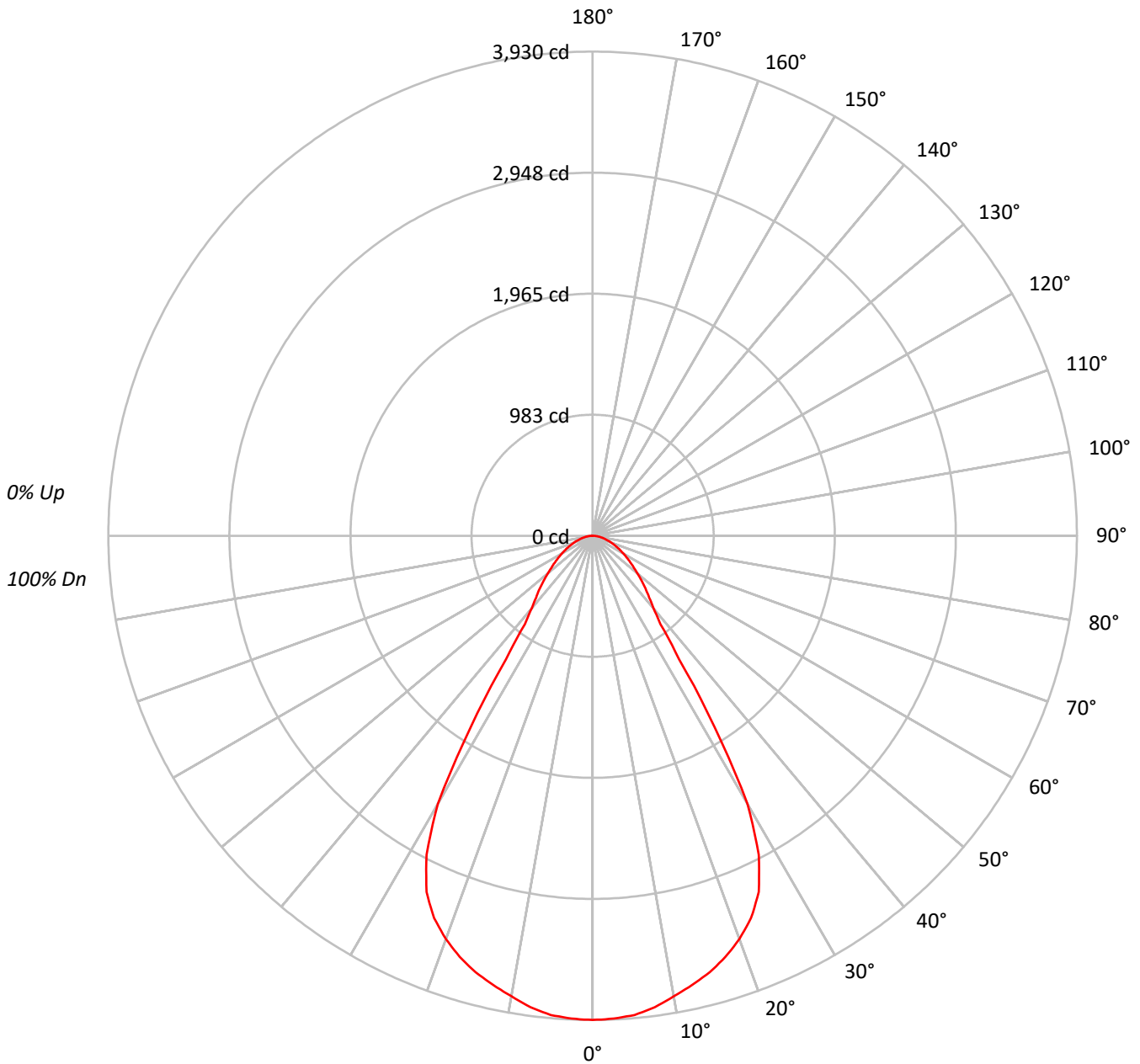
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	121187
5°	120860
10°	118848
15°	117114
20°	114302
25°	108503
30°	89497
35°	46076
40°	30851
45°	26453
50°	22825
55°	19919
60°	17694
65°	15899
70°	14416
75°	12987
80°	11614
85°	11569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	7.6
10°-20°	1032.1	21.2
20°-30°	1430.1	29.4
30°-40°	858.9	17.7
40°-50°	470.2	9.7
50°-60°	334.0	6.9
60°-70°	216.9	4.5
70°-80°	115.9	2.4
80°-90°	34.6	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°	2831.4	58.2
0°-40°	3690.3	75.9
0°-60°	4494.6	92.4
0°-90°	4862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4862.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3930	
5°	3904	369
15°	3668	1032
25°	3189	1430
35°	1224	859
45°	607	470
55°	370	334
65°	218	217
75°	109	116
85°	33	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3930.0
2.5°	3922.7
5°	3904.5
7.5°	3861.0
10°	3795.6
12.5°	3733.9
15°	3668.5
17.5°	3584.9
20°	3483.2
22.5°	3359.8
25°	3189.0
27.5°	2920.3
30°	2513.5
32.5°	1841.4
35°	1224.0
37.5°	904.4
40°	766.4
42.5°	679.2
45°	606.6
47.5°	537.6
50°	475.8
52.5°	417.7
55°	370.5
57.5°	326.9
60°	286.9
62.5°	250.6
65°	217.9
67.5°	185.3
70°	159.9
72.5°	130.8
75°	109.0
77.5°	87.2
80°	65.4
82.5°	47.2
85°	32.7
87.5°	14.5
90°	0.0



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— 0°-180°







(END OF REPORT)