

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: P584996

Luminaire Tested: **HC855D010-HM82555927-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584996
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-HM82555927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4821.9 lumens
Efficiency: N/A
Efficacy: 92.7 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

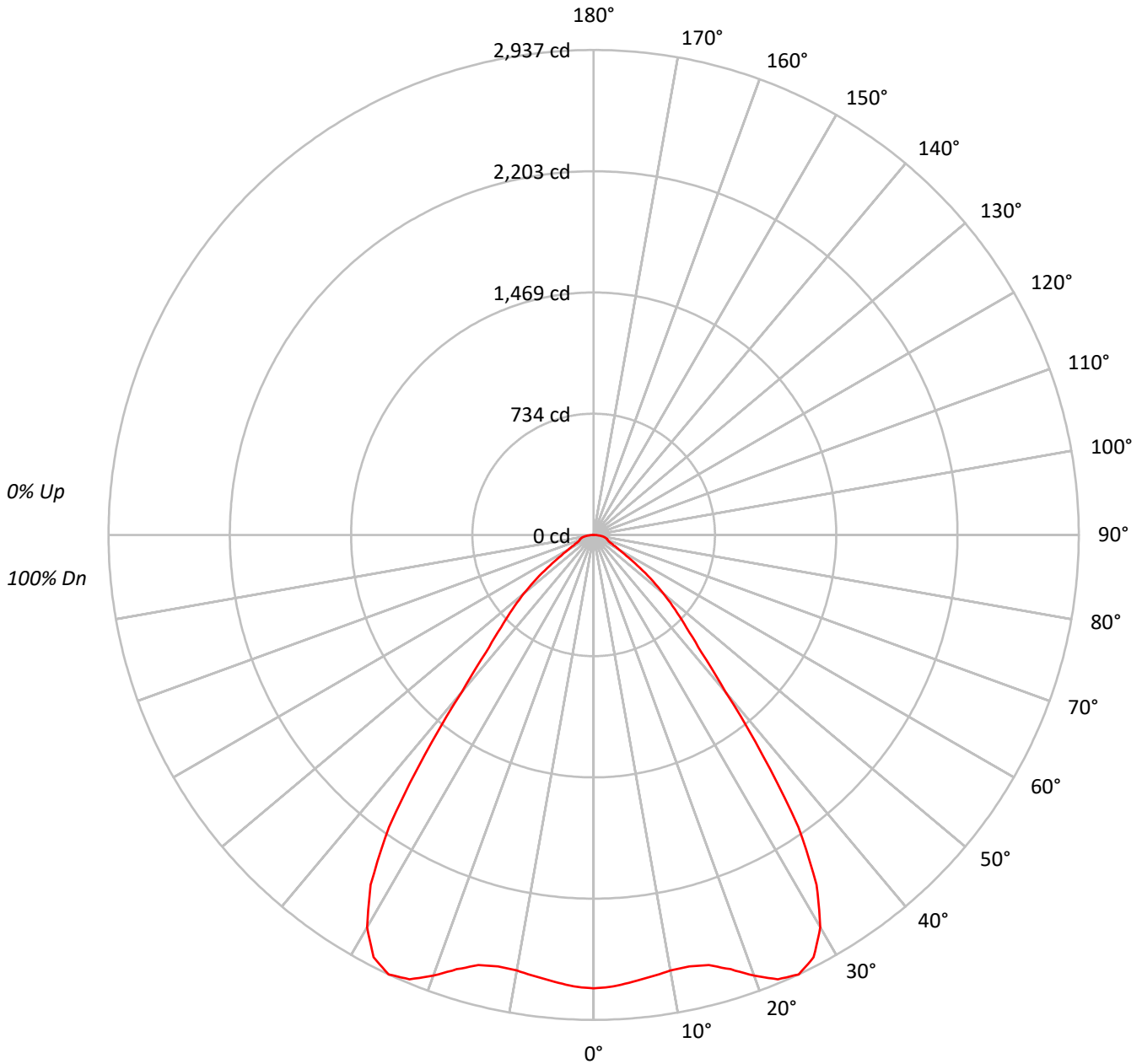
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	84683
5°	84099
10°	83879
15°	86080
20°	93192
25°	99915
30°	97680
35°	81338
40°	49971
45°	34599
50°	26404
55°	17317
60°	10836
65°	8114
70°	8177
75°	9412
80°	10406
85°	9341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	5.4
10°-20°	774.1	16.1
20°-30°	1332.6	27.6
30°-40°	1291.0	26.8
40°-50°	635.9	13.2
50°-60°	300.1	6.2
60°-70°	118.2	2.5
70°-80°	81.6	1.7
80°-90°	30.3	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°	2364.8	49.0
0°-40°	3655.8	75.8
0°-60°	4591.8	95.2
0°-90°	4821.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2746	
5°	2717	258
15°	2696	774
25°	2937	1333
35°	2161	1291
45°	793	636
55°	322	300
65°	111	118
75°	79	82
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2746.2
2.5°	2737.4
5°	2716.9
7.5°	2696.4
10°	2678.8
12.5°	2675.9
15°	2696.4
17.5°	2758.0
20°	2839.9
22.5°	2913.1
25°	2936.6
27.5°	2883.8
30°	2743.3
32.5°	2511.9
35°	2160.7
37.5°	1677.6
40°	1241.4
42.5°	963.3
45°	793.4
47.5°	667.6
50°	550.4
52.5°	433.3
55°	322.1
57.5°	234.2
60°	175.7
62.5°	137.6
65°	111.2
67.5°	96.6
70°	90.7
72.5°	84.9
75°	79.0
77.5°	70.3
80°	58.6
82.5°	43.9
85°	26.4
87.5°	11.7
90°	0.0



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— 0°-180°







(END OF REPORT)