

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: P593840

Luminaire Tested: **HC855D010-HM82555950-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593840
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-HM82555950-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6381.0 lumens
Efficiency: N/A
Efficacy: 122.7 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

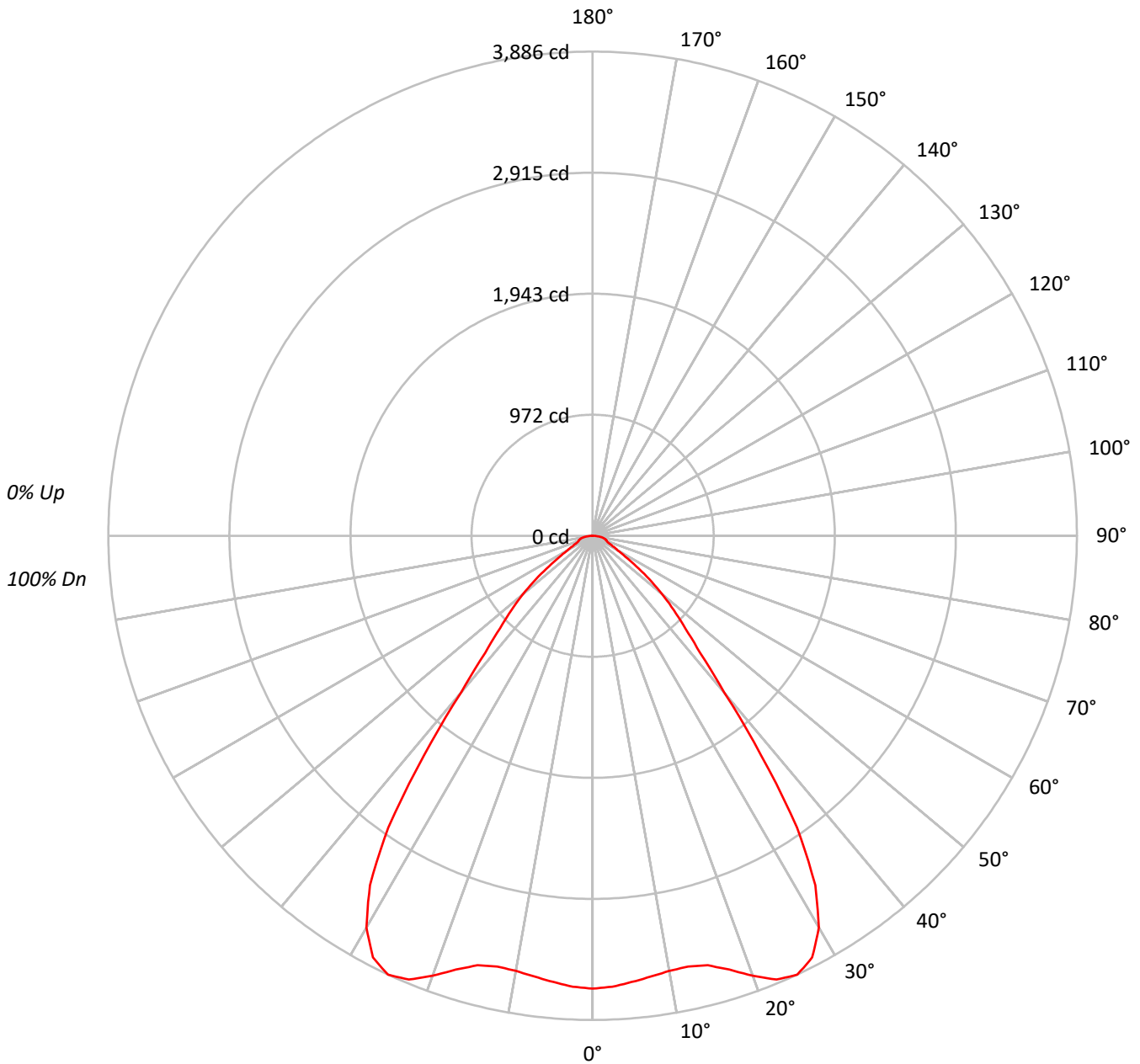
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	112068
5°	111295
10°	111004
15°	113918
20°	123330
25°	132218
30°	129267
35°	107636
40°	66129
45°	45790
50°	34943
55°	22908
60°	14333
65°	10740
70°	10828
75°	12474
80°	13762
85°	12348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.6	5.4
10°-20°	1024.4	16.1
20°-30°	1763.4	27.6
30°-40°	1708.5	26.8
40°-50°	841.5	13.2
50°-60°	397.1	6.2
60°-70°	156.5	2.5
70°-80°	108.0	1.7
80°-90°	40.1	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°	3129.4	49.0
0°-40°	4837.9	75.8
0°-60°	6076.5	95.2
0°-90°	6381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6381.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3634	
5°	3596	342
15°	3568	1024
25°	3886	1763
35°	2859	1708
45°	1050	842
55°	426	397
65°	147	156
75°	105	108
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3634.3
2.5°	3622.7
5°	3595.5
7.5°	3568.4
10°	3545.1
12.5°	3541.2
15°	3568.4
17.5°	3649.7
20°	3758.3
22.5°	3855.1
25°	3886.0
27.5°	3816.3
30°	3630.4
32.5°	3324.3
35°	2859.3
37.5°	2220.0
40°	1642.8
42.5°	1274.7
45°	1050.0
47.5°	883.3
50°	728.4
52.5°	573.5
55°	426.1
57.5°	310.0
60°	232.4
62.5°	182.1
65°	147.2
67.5°	127.9
70°	120.1
72.5°	112.4
75°	104.7
77.5°	92.9
80°	77.5
82.5°	58.1
85°	34.9
87.5°	15.5
90°	0.0



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— 0°-180°







(END OF REPORT)