

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: P584962

Luminaire Tested: **HC855D010-HM82555835-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584962
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-HM82555835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6190.3 lumens
Efficiency: N/A
Efficacy: 119.0 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

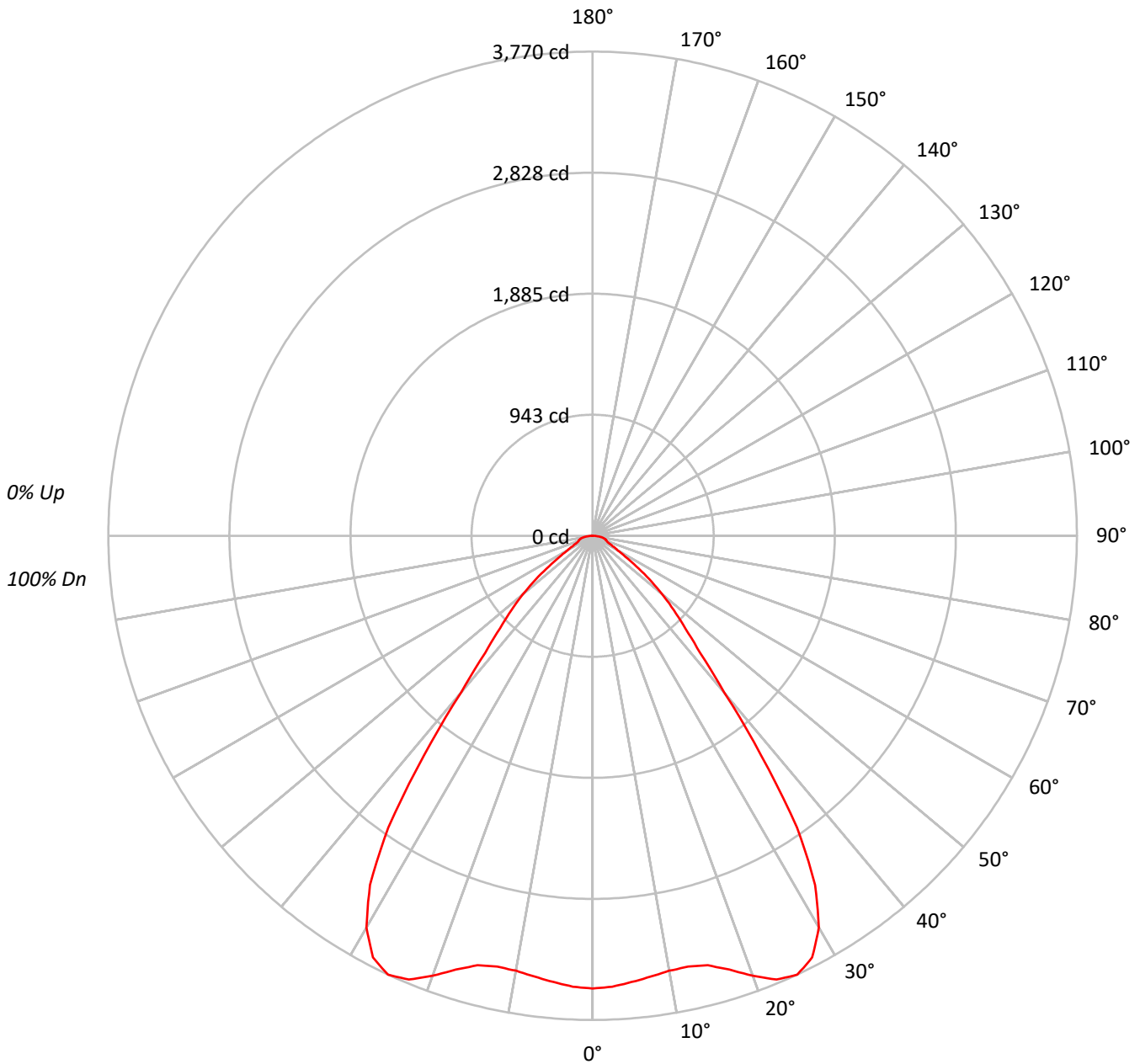
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	108717
5°	107968
10°	107685
15°	110512
20°	119641
25°	128271
30°	125403
35°	104421
40°	64153
45°	44420
50°	33898
55°	22230
60°	13907
65°	10427
70°	10504
75°	12093
80°	13336
85°	11994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	5.4
10°-20°	993.7	16.1
20°-30°	1710.7	27.6
30°-40°	1657.4	26.8
40°-50°	816.4	13.2
50°-60°	385.2	6.2
60°-70°	151.8	2.5
70°-80°	104.7	1.7
80°-90°	38.9	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°	3035.9	49.0
0°-40°	4693.3	75.8
0°-60°	5894.9	95.2
0°-90°	6190.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6190.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3526	
5°	3488	331
15°	3462	994
25°	3770	1711
35°	2774	1657
45°	1019	816
55°	414	385
65°	143	152
75°	102	105
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3525.6
2.5°	3514.4
5°	3488.0
7.5°	3461.7
10°	3439.1
12.5°	3435.4
15°	3461.7
17.5°	3540.6
20°	3645.9
22.5°	3739.9
25°	3770.0
27.5°	3702.2
30°	3521.9
32.5°	3224.9
35°	2773.9
37.5°	2153.7
40°	1593.7
42.5°	1236.6
45°	1018.6
47.5°	857.0
50°	706.6
52.5°	556.2
55°	413.5
57.5°	300.7
60°	225.5
62.5°	176.6
65°	142.9
67.5°	124.0
70°	116.5
72.5°	109.0
75°	101.5
77.5°	90.2
80°	75.1
82.5°	56.4
85°	33.9
87.5°	15.0
90°	0.0



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— 0°-180°







(END OF REPORT)