

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: P593823

Luminaire Tested: **HC855D010-HM82555850-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593823
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-HM82555850-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6704.5 lumens
Efficiency: N/A
Efficacy: 128.9 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

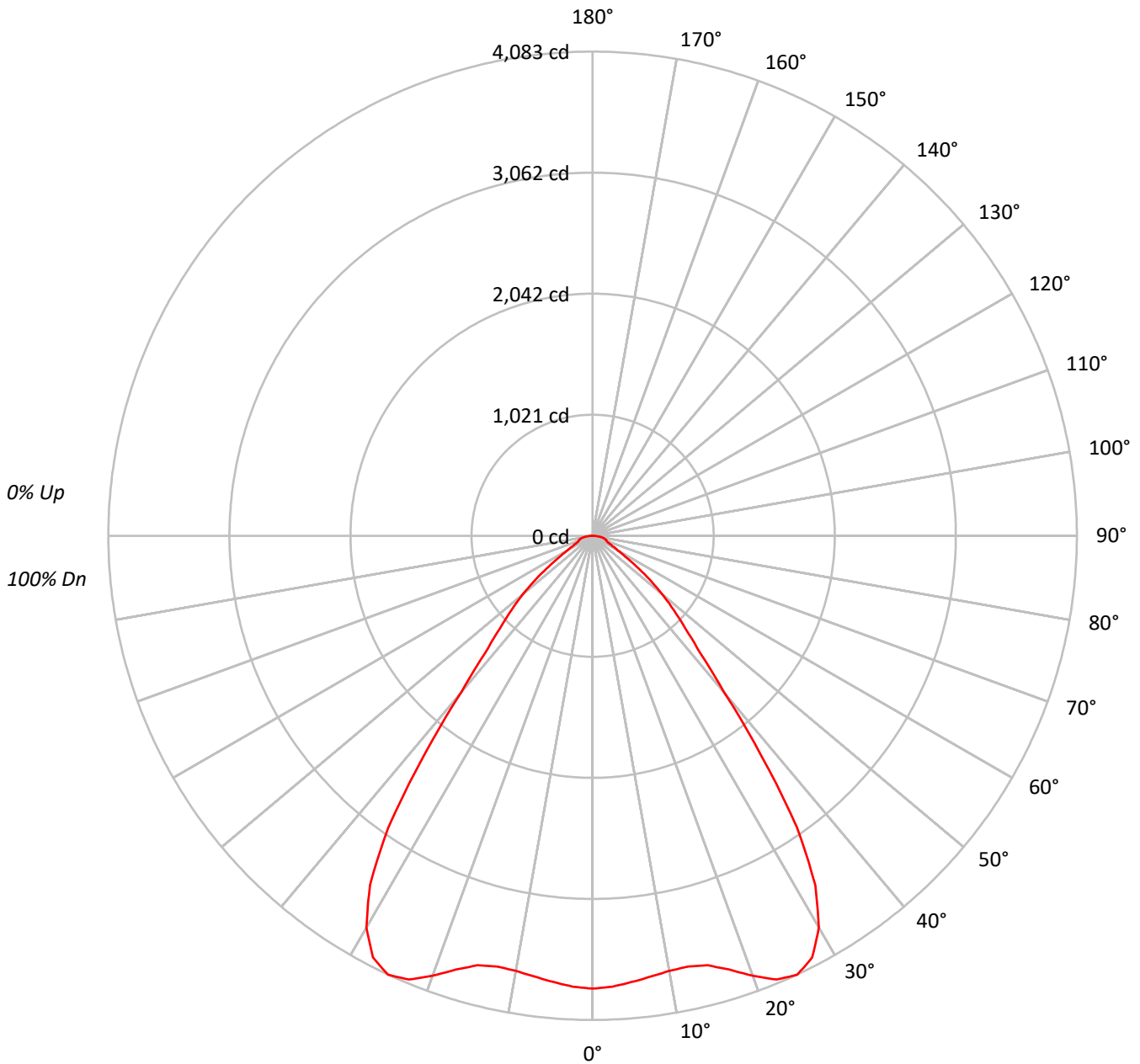
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	117745
5°	116935
10°	116634
15°	119690
20°	129578
25°	138920
30°	135818
35°	113094
40°	69478
45°	48110
50°	36714
55°	24074
60°	15060
65°	11288
70°	11378
75°	13094
80°	14473
85°	12985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	5.4
10°-20°	1076.3	16.1
20°-30°	1852.8	27.6
30°-40°	1795.1	26.8
40°-50°	884.1	13.2
50°-60°	417.2	6.2
60°-70°	164.4	2.5
70°-80°	113.4	1.7
80°-90°	42.1	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°	3288.0	49.0
0°-40°	5083.1	75.8
0°-60°	6384.5	95.2
0°-90°	6704.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6704.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3818	
5°	3778	359
15°	3749	1076
25°	4083	1853
35°	3004	1795
45°	1103	884
55°	448	417
65°	155	164
75°	110	113
85°	37	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3818.4
2.5°	3806.2
5°	3777.7
7.5°	3749.2
10°	3724.9
12.5°	3720.7
15°	3749.2
17.5°	3834.7
20°	3948.7
22.5°	4050.4
25°	4083.0
27.5°	4009.8
30°	3814.4
32.5°	3492.8
35°	3004.3
37.5°	2332.6
40°	1726.0
42.5°	1339.2
45°	1103.2
47.5°	928.1
50°	765.3
52.5°	602.5
55°	447.8
57.5°	325.7
60°	244.2
62.5°	191.3
65°	154.7
67.5°	134.3
70°	126.2
72.5°	118.0
75°	109.9
77.5°	97.7
80°	81.5
82.5°	61.1
85°	36.7
87.5°	16.3
90°	0.0



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— 0°-180°







(END OF REPORT)