

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: P580471

Luminaire Tested: **HC435D010-HM43040927-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040927-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2434.6 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

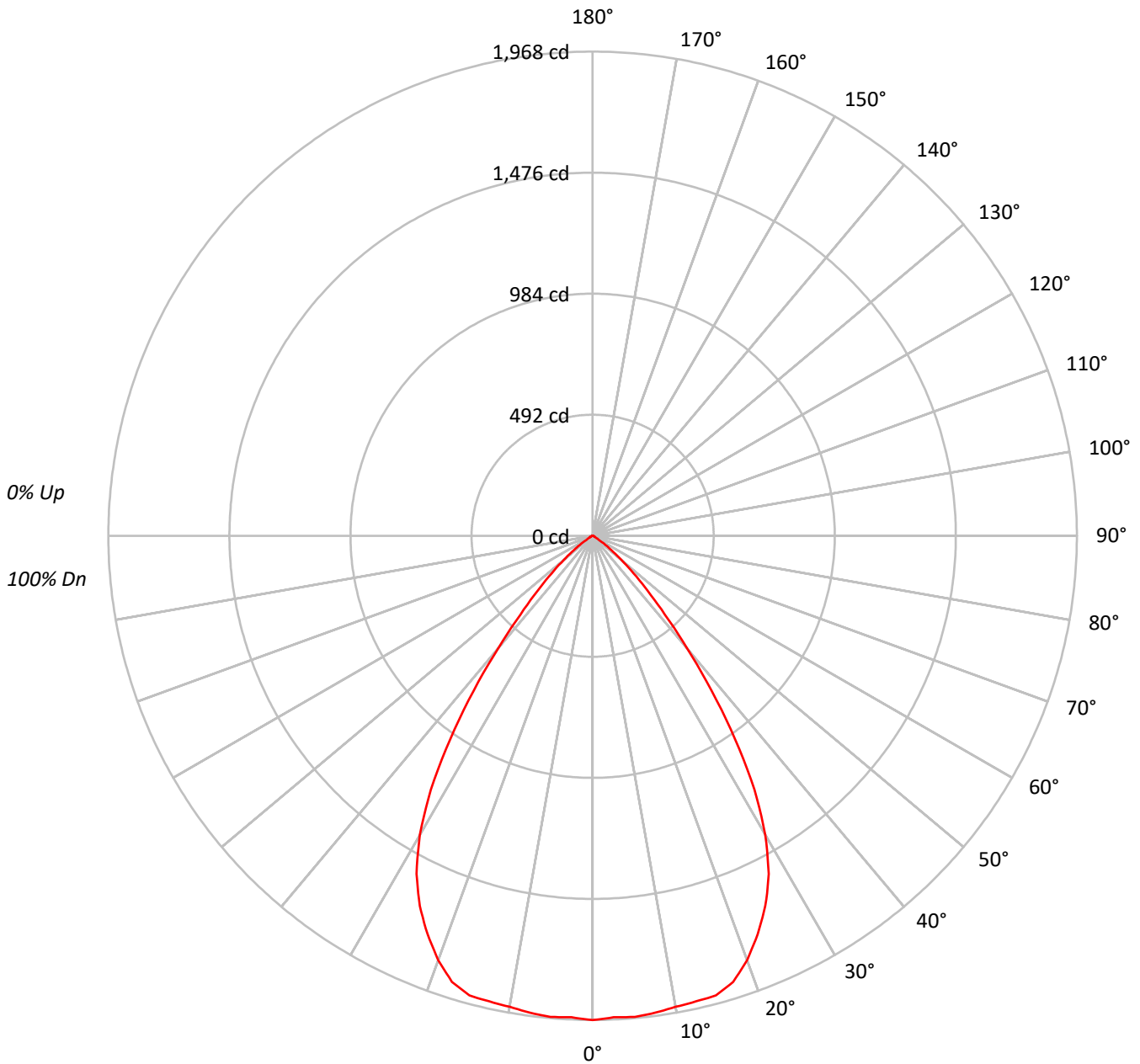
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	242806
5°	243028
10°	243495
15°	247042
20°	240891
25°	226016
30°	199925
35°	152023
40°	95772
45°	55000
50°	29168
55°	12107
60°	3256
65°	2714
70°	2020
75°	1763
80°	1350
85°	2689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	7.7
10°-20°	541.7	22.3
20°-30°	756.0	31.1
30°-40°	622.2	25.6
40°-50°	256.3	10.5
50°-60°	57.7	2.4
60°-70°	9.2	0.4
70°-80°	3.4	0.1
80°-90°	1.3	0.1
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°	1484.4	61.0
0°-40°	2106.6	86.5
0°-60°	2420.6	99.4
0°-90°	2434.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1968	
5°	1963	187
15°	1935	542
25°	1661	756
35°	1010	622
45°	315	256
55°	56	58
65°	9	9
75°	4	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1968.5
2.5°	1959.0
5°	1962.8
7.5°	1955.3
10°	1944.1
12.5°	1938.5
15°	1934.6
17.5°	1900.9
20°	1835.2
22.5°	1752.7
25°	1660.7
27.5°	1550.0
30°	1403.7
32.5°	1223.5
35°	1009.6
37.5°	793.8
40°	594.8
42.5°	433.4
45°	315.3
47.5°	225.1
50°	152.0
52.5°	95.7
55°	56.3
57.5°	28.1
60°	13.2
62.5°	11.2
65°	9.3
67.5°	7.5
70°	5.6
72.5°	3.7
75°	3.7
77.5°	1.9
80°	1.9
82.5°	1.9
85°	1.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)