

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: P580543

Luminaire Tested: **HC440D010-HM43040827-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580543
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: HC440D010-HM43040827-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3258.7 lumens
Efficiency: N/A
Efficacy: 79.5 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

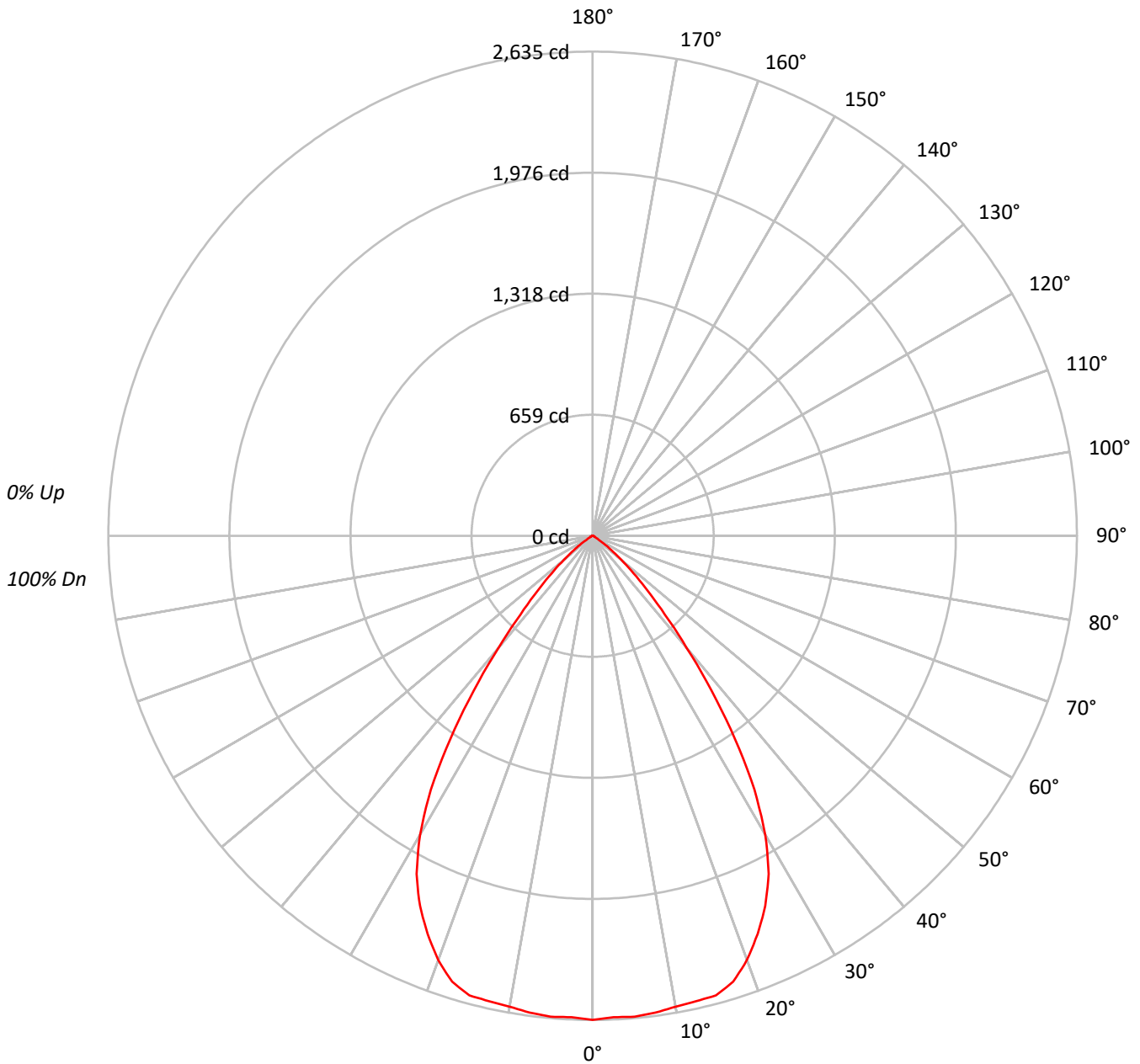
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	324991
5°	325304
10°	325921
15°	330684
20°	322431
25°	302516
30°	267592
35°	203490
40°	128201
45°	73595
50°	39050
55°	16193
60°	4342
65°	3677
70°	2705
75°	2383
80°	1776
85°	3538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	7.7
10°-20°	725.1	22.3
20°-30°	1011.9	31.1
30°-40°	832.8	25.6
40°-50°	343.0	10.5
50°-60°	77.3	2.4
60°-70°	12.4	0.4
70°-80°	4.6	0.1
80°-90°	1.7	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°	1986.9	61.0
0°-40°	2819.7	86.5
0°-60°	3240.0	99.4
0°-90°	3258.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2635	
5°	2627	250
15°	2590	725
25°	2223	1012
35°	1351	833
45°	422	343
55°	75	77
65°	13	12
75°	5	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2634.8
2.5°	2622.2
5°	2627.3
7.5°	2617.2
10°	2602.2
12.5°	2594.7
15°	2589.6
17.5°	2544.3
20°	2456.4
22.5°	2345.9
25°	2222.8
27.5°	2074.6
30°	1878.8
32.5°	1637.7
35°	1351.4
37.5°	1062.5
40°	796.2
42.5°	580.2
45°	421.9
47.5°	301.4
50°	203.5
52.5°	128.1
55°	75.3
57.5°	37.7
60°	17.6
62.5°	15.0
65°	12.6
67.5°	10.1
70°	7.5
72.5°	5.0
75°	5.0
77.5°	2.5
80°	2.5
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)