

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: P580615

Luminaire Tested: **HC440D010-HM43040927-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580615
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-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: 2815.9 lumens
Efficiency: N/A
Efficacy: 68.7 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

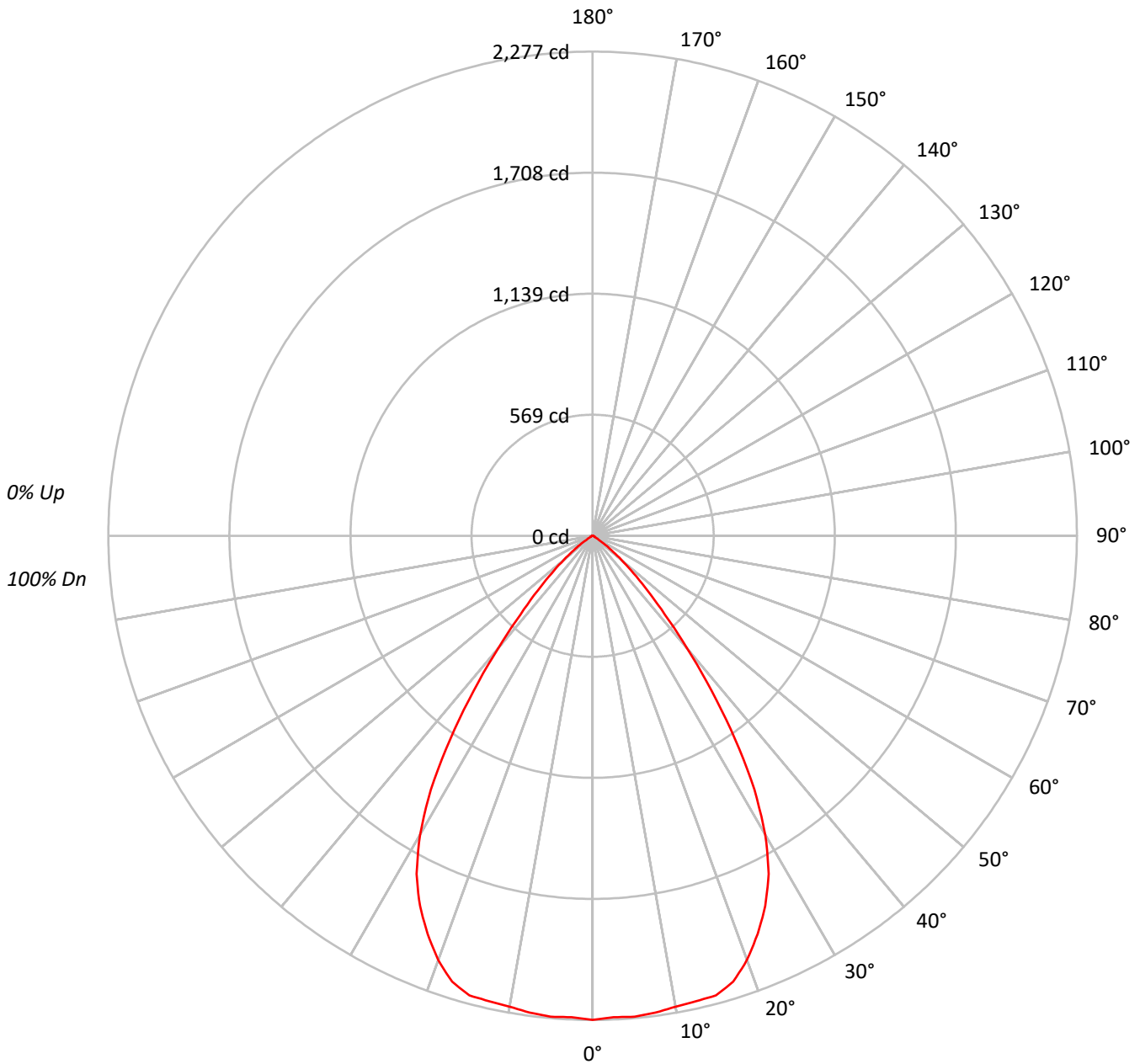
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580615

CATALOG NUMBER: HC440D010-HM43040927-41WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P580615

CATALOG NUMBER: HC440D010-HM43040927-41WDBB

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°	280833
5°	281089
10°	281634
15°	285747
20°	278629
25°	261415
30°	231216
35°	175829
40°	110795
45°	63617
50°	33735
55°	14000
60°	3750
65°	3181
70°	2344
75°	2097
80°	1492
85°	2972



TEST NUMBER: P580615

CATALOG NUMBER: HC440D010-HM43040927-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	7.7
10°-20°	626.6	22.3
20°-30°	874.5	31.1
30°-40°	719.6	25.6
40°-50°	296.4	10.5
50°-60°	66.7	2.4
60°-70°	10.7	0.4
70°-80°	4.0	0.1
80°-90°	1.4	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°	1716.9	61.0
0°-40°	2436.6	86.5
0°-60°	2799.7	99.4
0°-90°	2815.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2277	
5°	2270	216
15°	2238	627
25°	1921	874
35°	1168	720
45°	365	296
55°	65	67
65°	11	11
75°	4	4
85°	2	1
90°	0	



TEST NUMBER: P580615

CATALOG NUMBER: HC440D010-HM43040927-41WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2276.8
2.5°	2266.0
5°	2270.2
7.5°	2261.6
10°	2248.6
12.5°	2242.1
15°	2237.7
17.5°	2198.6
20°	2122.7
22.5°	2027.2
25°	1920.8
27.5°	1792.8
30°	1623.4
32.5°	1415.2
35°	1167.7
37.5°	918.1
40°	688.1
42.5°	501.4
45°	364.7
47.5°	260.4
50°	175.8
52.5°	110.6
55°	65.1
57.5°	32.5
60°	15.2
62.5°	13.0
65°	10.9
67.5°	8.6
70°	6.5
72.5°	4.4
75°	4.4
77.5°	2.1
80°	2.1
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)