

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: P580399

Luminaire Tested: **HC435D010-HM43040827-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580399
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-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: 2817.3 lumens
Efficiency: N/A
Efficacy: 83.6 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

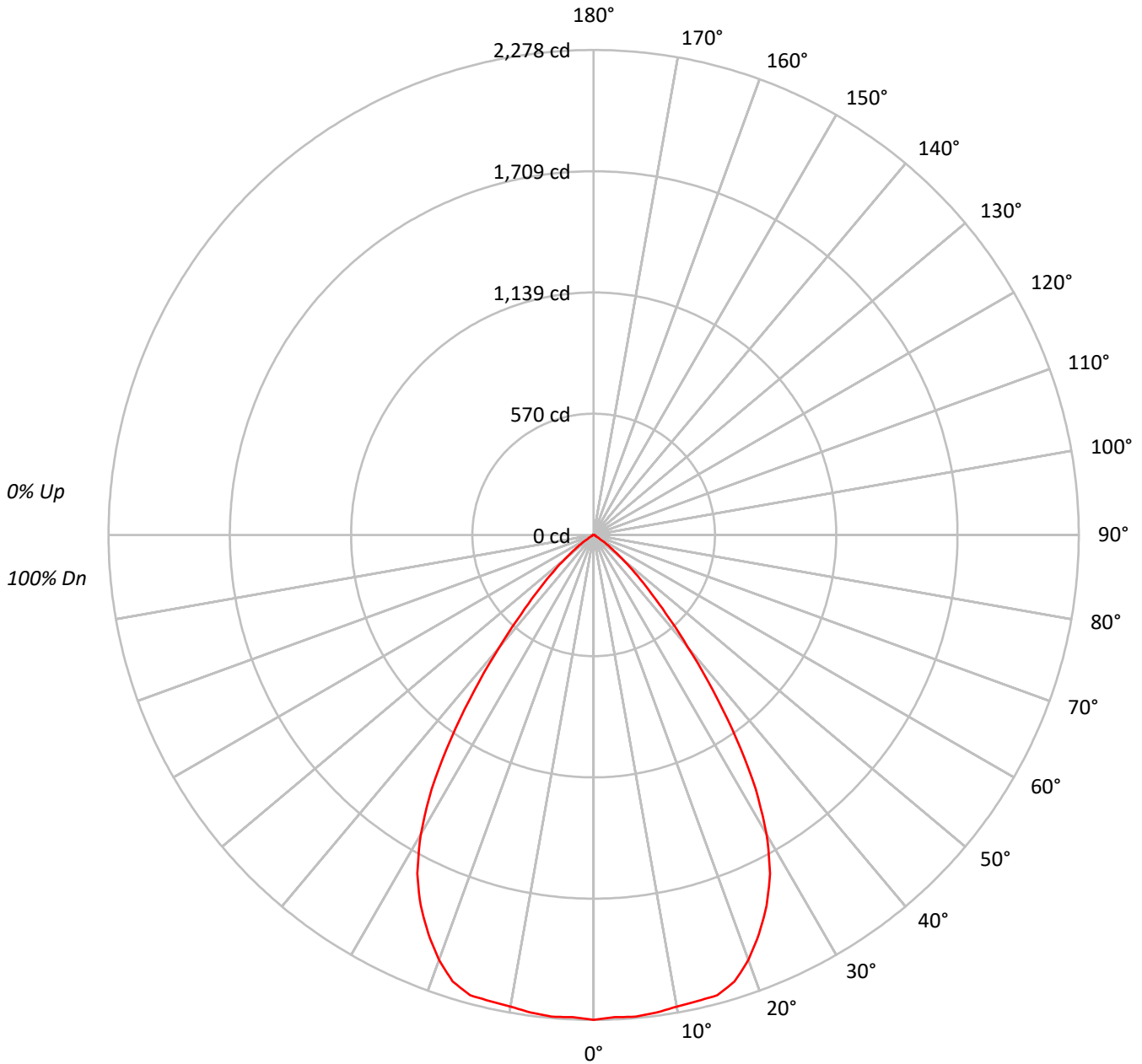
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	280981
5°	281250
10°	281771
15°	285900
20°	278774
25°	261551
30°	231345
35°	175919
40°	110828
45°	63652
50°	33754
55°	14021
60°	3750
65°	3181
70°	2344
75°	2097
80°	1492
85°	2972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	7.7
10°-20°	626.9	22.3
20°-30°	874.9	31.1
30°-40°	720.0	25.6
40°-50°	296.6	10.5
50°-60°	66.8	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°	1717.8	61.0
0°-40°	2437.8	86.5
0°-60°	2801.2	99.4
0°-90°	2817.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2278	
5°	2272	216
15°	2239	627
25°	1922	875
35°	1168	720
45°	365	297
55°	65	67
65°	11	11
75°	4	4
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2278.0
2.5°	2267.1
5°	2271.5
7.5°	2262.7
10°	2249.7
12.5°	2243.2
15°	2238.9
17.5°	2199.8
20°	2123.8
22.5°	2028.3
25°	1921.8
27.5°	1793.7
30°	1624.3
32.5°	1415.9
35°	1168.3
37.5°	918.5
40°	688.3
42.5°	501.6
45°	364.9
47.5°	260.5
50°	175.9
52.5°	110.7
55°	65.2
57.5°	32.6
60°	15.2
62.5°	13.0
65°	10.9
67.5°	8.7
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



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— 0°-180°







(END OF REPORT)