

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: P580472

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040927-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3029.7 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

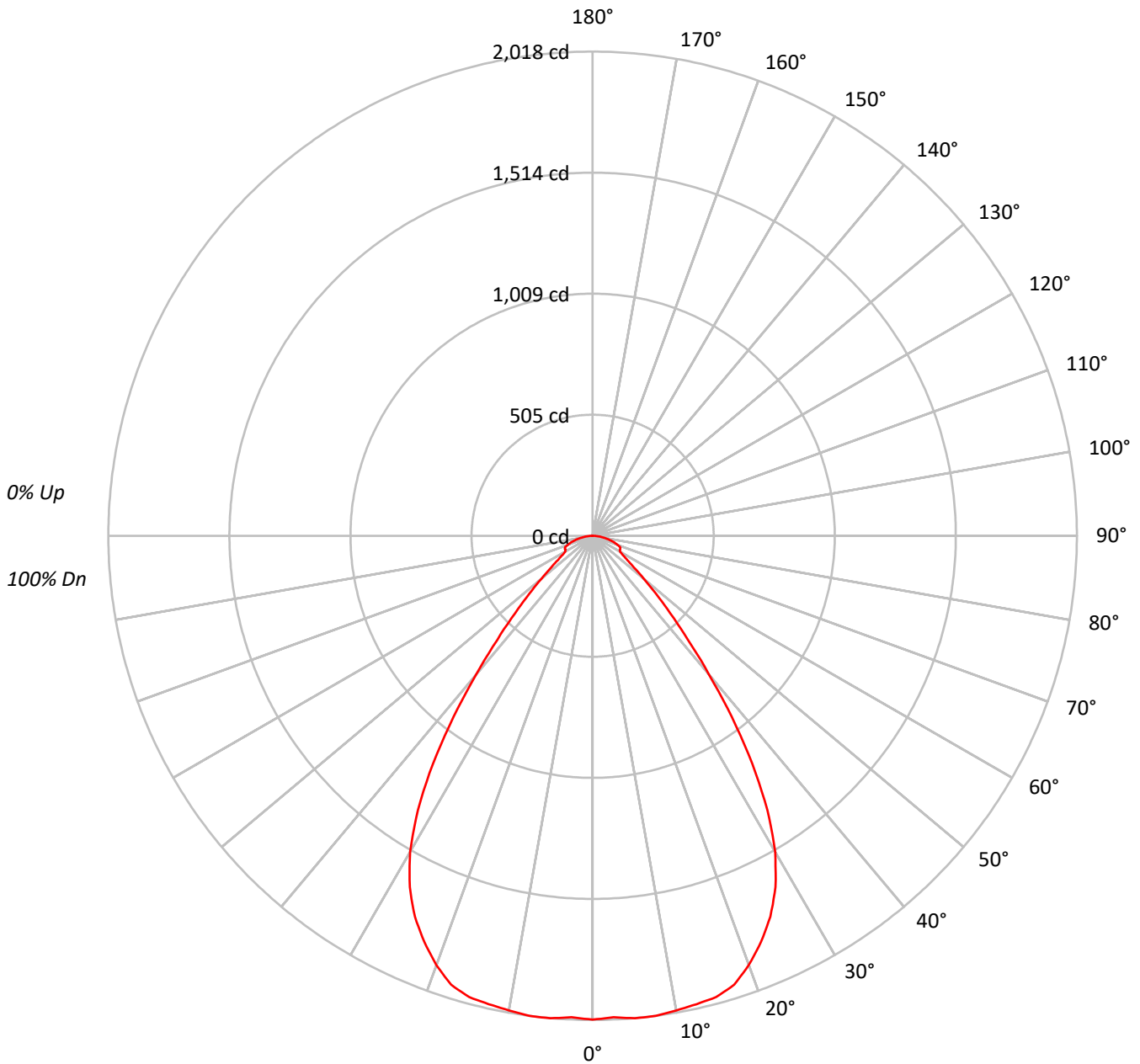
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	248726
5°	249912
10°	251612
15°	254142
20°	249896
25°	238414
30°	216603
35°	174715
40°	121229
45°	79578
50°	53327
55°	37956
60°	32415
65°	37271
70°	39959
75°	38459
80°	34664
85°	31843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	6.3
10°-20°	559.1	18.5
20°-30°	798.8	26.4
30°-40°	713.6	23.6
40°-50°	366.0	12.1
50°-60°	166.4	5.5
60°-70°	124.1	4.1
70°-80°	84.4	2.8
80°-90°	25.0	0.8
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°	1550.2	51.2
0°-40°	2263.8	74.7
0°-60°	2796.2	92.3
0°-90°	3029.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2016	
5°	2018	192
15°	1990	559
25°	1752	799
35°	1160	714
45°	456	366
55°	176	166
65°	128	124
75°	81	84
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2016.5
2.5°	2008.9
5°	2018.4
7.5°	2018.4
10°	2008.9
12.5°	1999.6
15°	1990.2
17.5°	1961.9
20°	1903.8
22.5°	1832.5
25°	1751.8
27.5°	1650.4
30°	1520.8
32.5°	1355.5
35°	1160.3
37.5°	951.9
40°	752.9
42.5°	587.6
45°	456.2
47.5°	356.8
50°	277.9
52.5°	217.8
55°	176.5
57.5°	148.4
60°	131.4
62.5°	127.7
65°	127.7
67.5°	123.9
70°	110.8
72.5°	95.8
75°	80.7
77.5°	63.8
80°	48.8
82.5°	35.6
85°	22.5
87.5°	9.4
90°	0.0



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— 0°-180°







(END OF REPORT)