

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: P580508

Luminaire Tested: **HC435D010-HM43040935-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580508
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-HM43040935-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3391.5 lumens
Efficiency: N/A
Efficacy: 100.6 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

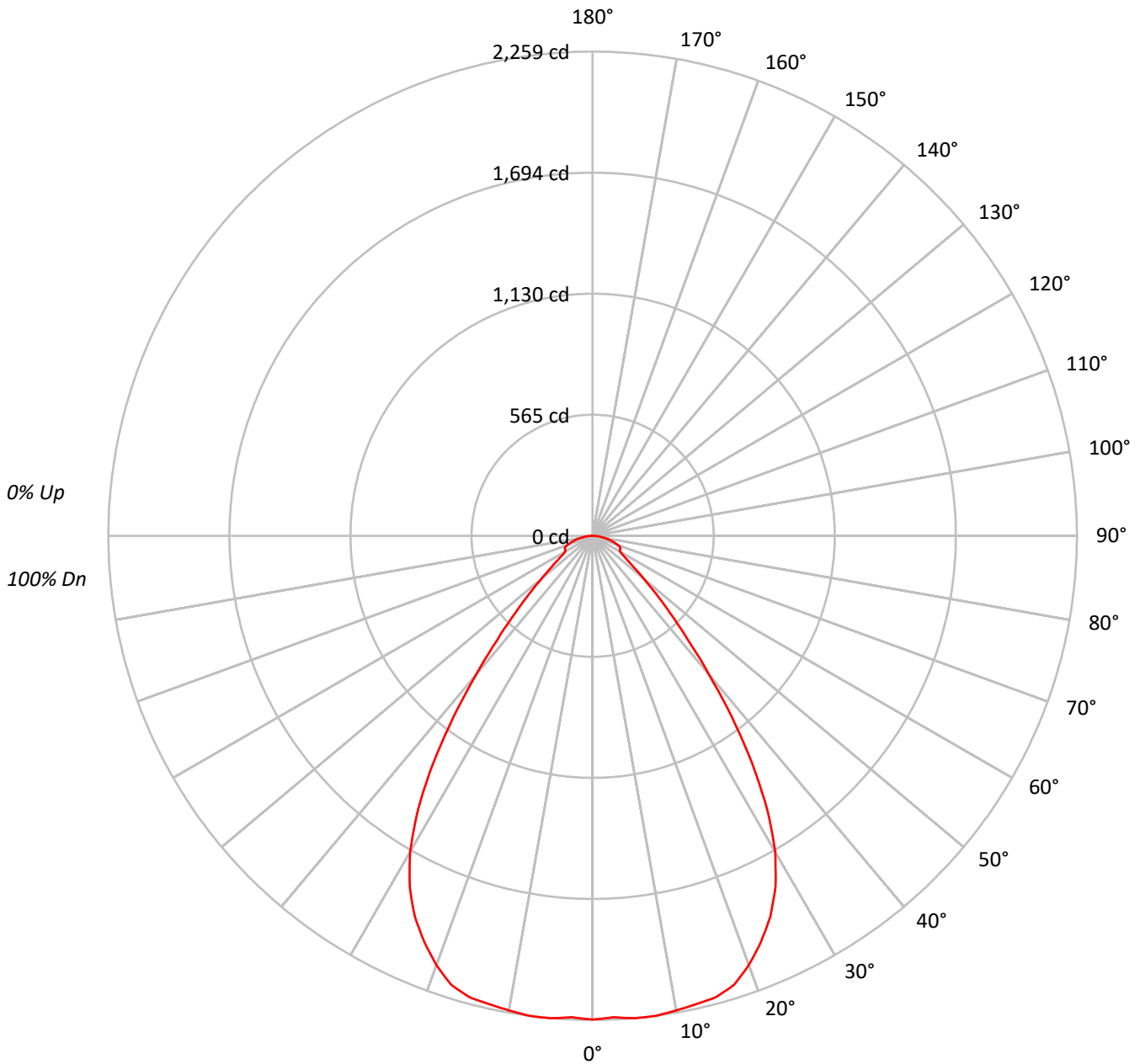
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	278416
5°	279752
10°	281671
15°	284496
20°	279732
25°	266872
30°	242468
35°	195585
40°	135705
45°	89085
50°	59678
55°	42493
60°	36288
65°	41736
70°	44719
75°	43082
80°	38783
85°	35664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	6.3
10°-20°	625.8	18.5
20°-30°	894.2	26.4
30°-40°	798.8	23.6
40°-50°	409.7	12.1
50°-60°	186.2	5.5
60°-70°	138.9	4.1
70°-80°	94.5	2.8
80°-90°	28.0	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°	1735.3	51.2
0°-40°	2534.1	74.7
0°-60°	3130.0	92.3
0°-90°	3391.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3391.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2257	
5°	2259	215
15°	2228	626
25°	1961	894
35°	1299	799
45°	511	410
55°	198	186
65°	143	139
75°	90	95
85°	25	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2257.2
2.5°	2248.9
5°	2259.4
7.5°	2259.4
10°	2248.9
12.5°	2238.3
15°	2227.9
17.5°	2196.3
20°	2131.1
22.5°	2051.3
25°	1960.9
27.5°	1847.4
30°	1702.4
32.5°	1517.4
35°	1298.9
37.5°	1065.6
40°	842.8
42.5°	657.9
45°	510.7
47.5°	399.4
50°	311.0
52.5°	243.8
55°	197.6
57.5°	166.0
60°	147.1
62.5°	143.0
65°	143.0
67.5°	138.7
70°	124.0
72.5°	107.2
75°	90.4
77.5°	71.5
80°	54.6
82.5°	39.9
85°	25.2
87.5°	10.5
90°	0.0



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— 0°-180°







(END OF REPORT)