

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: P580529

Luminaire Tested: **HC435D010-HM43040940-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040940-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3353.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

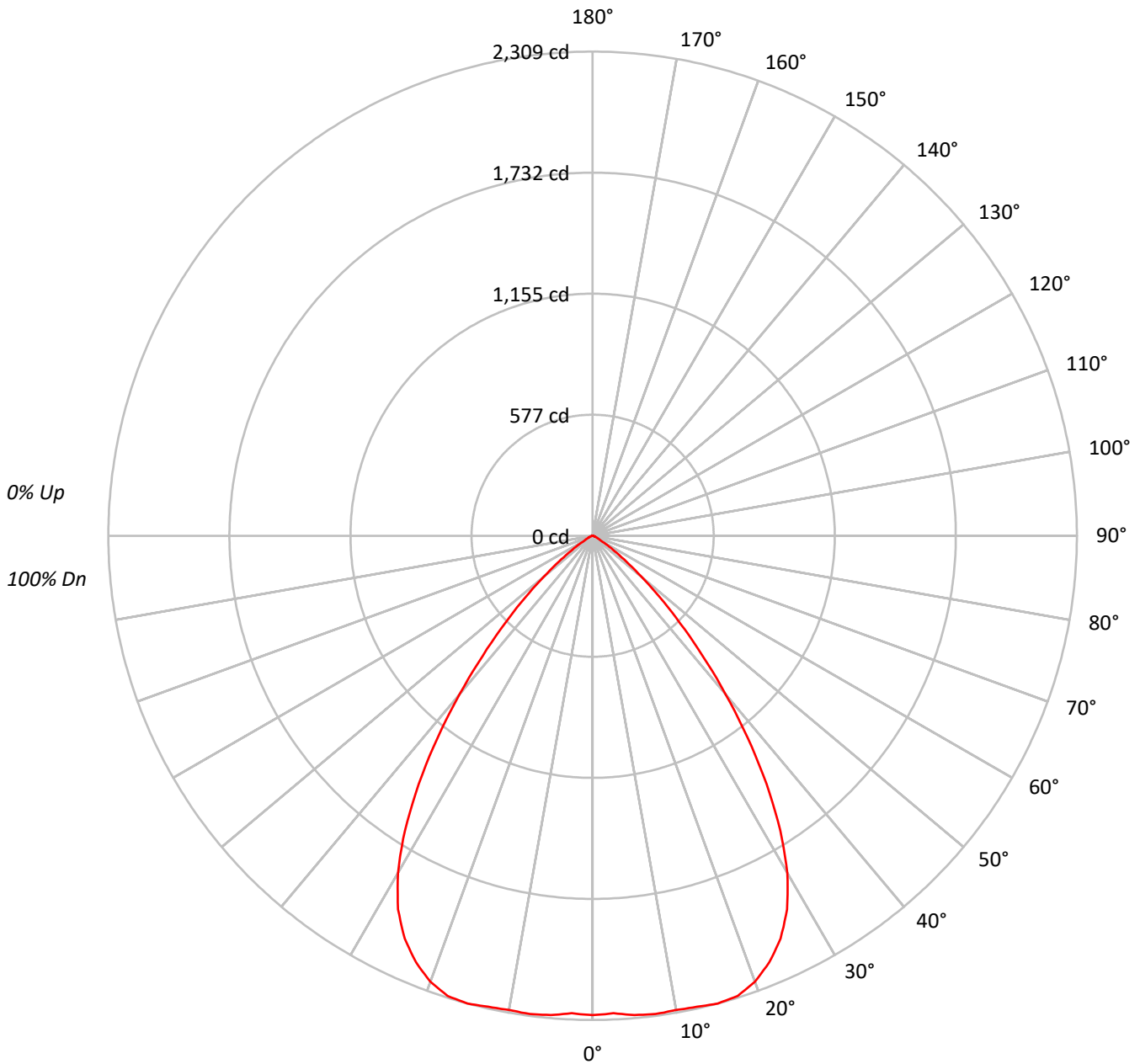
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	281943
5°	284060
10°	287595
15°	294839
20°	296993
25°	288498
30°	264516
35°	217659
40°	158649
45°	102970
50°	58066
55°	27547
60°	10904
65°	6771
70°	4544
75°	3002
80°	1492
85°	2972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	6.5
10°-20°	650.9	19.4
20°-30°	965.5	28.8
30°-40°	891.8	26.6
40°-50°	465.6	13.9
50°-60°	127.6	3.8
60°-70°	24.6	0.7
70°-80°	6.9	0.2
80°-90°	1.4	0.0
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°	1835.5	54.7
0°-40°	2727.2	81.3
0°-60°	3320.4	99.0
0°-90°	3353.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3353.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2286	
5°	2294	219
15°	2309	651
25°	2120	965
35°	1446	892
45°	590	466
55°	128	128
65°	23	25
75°	6	7
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2285.8
2.5°	2279.5
5°	2294.2
7.5°	2300.5
10°	2296.2
12.5°	2300.5
15°	2308.9
17.5°	2300.5
20°	2262.6
22.5°	2201.7
25°	2119.8
27.5°	2008.5
30°	1857.2
32.5°	1666.0
35°	1445.5
37.5°	1214.3
40°	985.3
42.5°	775.2
45°	590.3
47.5°	432.7
50°	302.6
52.5°	201.6
55°	128.1
57.5°	75.6
60°	44.2
62.5°	31.5
65°	23.2
67.5°	16.9
70°	12.6
72.5°	8.4
75°	6.3
77.5°	4.2
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)