

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: P580509

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040935-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3088.9 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

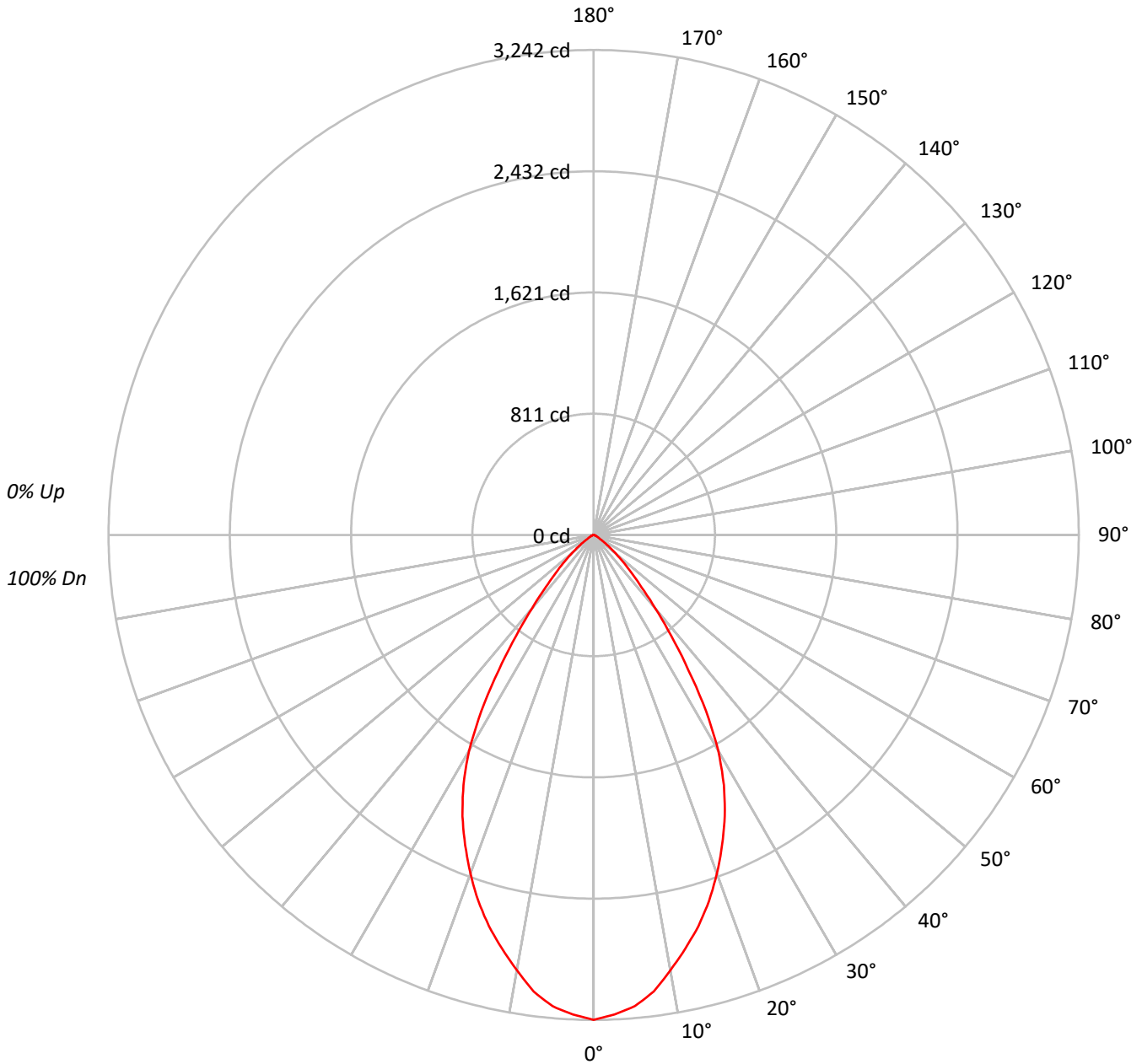
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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	99	97	97	96	95	93	93	93	93	93															
	1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93	93	93	93	93	93	93	93	93															
	2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	85	84	83	82	81	80	79	79	79	79															
	3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	78	77	76	75	74	73	73	73	73	73															
	4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	72	71	70	69	68	67	67	67	67	67															
	5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	66	65	64	63	62	61	61	61	61	61															
	6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	61	60	59	58	57	56	56	56	56	56															
	7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	57	56	55	54	53	52	52	52	52	52															
	8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	53	52	51	50	49	49	49	49	49	49															
	9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	50	49	48	47	46	46	46	46	46	46															
	10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	46	45	44	43	42	42	42	42	42	42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	399887
5°	391521
10°	369996
15°	345560
20°	316052
25°	282238
30°	237013
35°	166734
40°	102857
45°	61559
50°	36287
55°	18085
60°	9325
65°	6129
70°	3787
75°	3002
80°	1492
85°	2972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	9.6
10°-20°	756.5	24.5
20°-30°	943.4	30.5
30°-40°	694.9	22.5
40°-50°	285.8	9.3
50°-60°	83.5	2.7
60°-70°	21.5	0.7
70°-80°	6.6	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°	1995.1	64.6
0°-40°	2690.1	87.1
0°-60°	3059.4	99.0
0°-90°	3088.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3242	
5°	3162	295
15°	2706	756
25°	2074	943
35°	1107	695
45°	353	286
55°	84	84
65°	21	21
75°	6	7
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3242.0
2.5°	3208.3
5°	3162.1
7.5°	3078.1
10°	2954.1
12.5°	2832.3
15°	2706.1
17.5°	2565.4
20°	2407.8
22.5°	2244.0
25°	2073.8
27.5°	1884.6
30°	1664.1
32.5°	1397.2
35°	1107.3
37.5°	851.0
40°	638.8
42.5°	472.8
45°	352.9
47.5°	260.5
50°	189.1
52.5°	130.3
55°	84.1
57.5°	50.5
60°	37.8
62.5°	27.3
65°	21.0
67.5°	14.7
70°	10.5
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)