

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: P580463

Luminaire Tested: **HC435D010-HM43040840-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040840-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3393.2 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

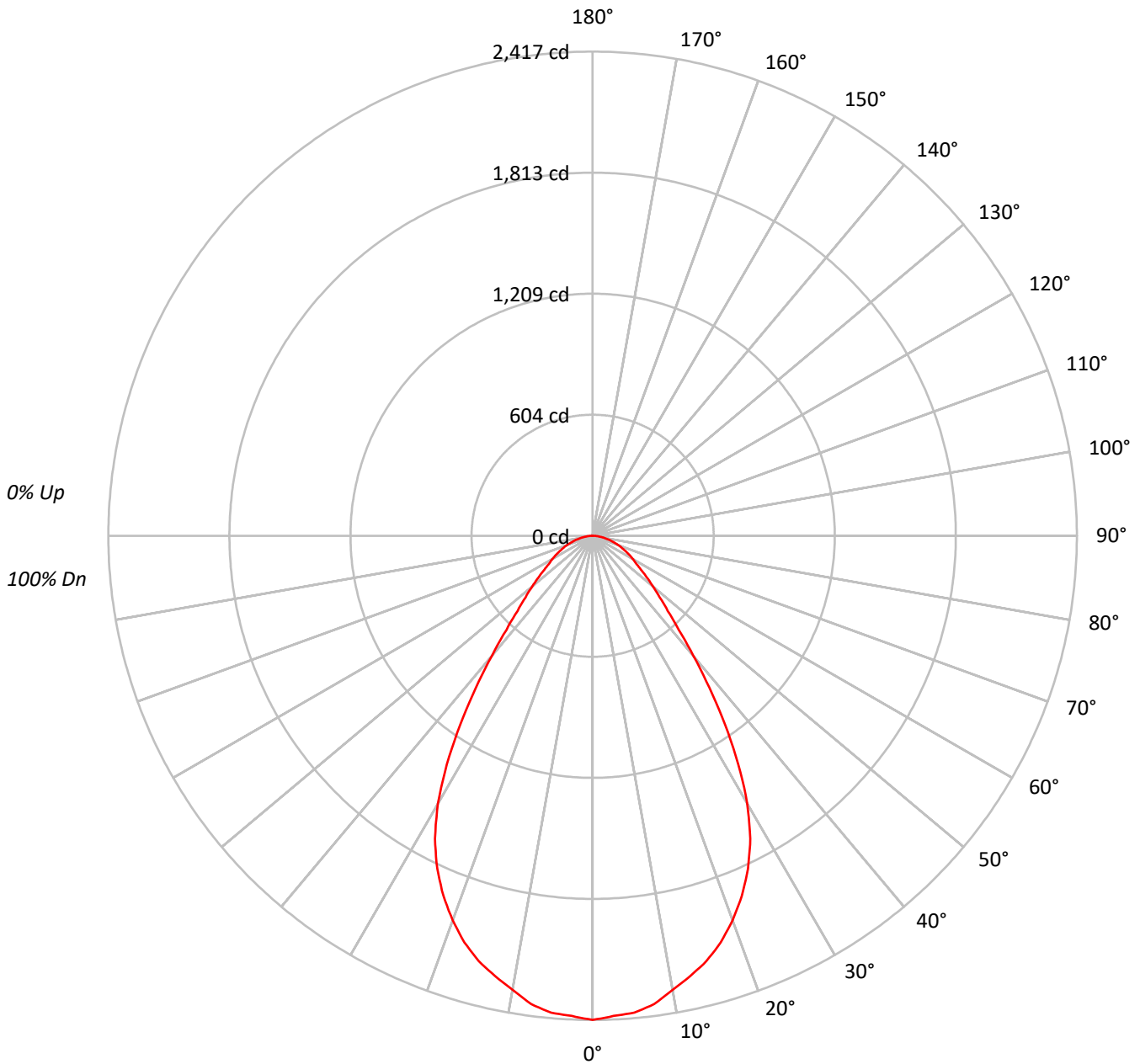
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89	89	89	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71	71	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64	64	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58	58	58	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52	52	52	52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48	48	48	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38	38	38	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	298102
5°	295873
10°	288184
15°	280588
20°	268036
25°	249710
30°	219879
35°	173420
40°	125866
45°	92487
50°	75260
55°	63116
60°	57183
65°	52564
70°	48939
75°	44655
80°	40346
85°	34815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	6.6
10°-20°	616.3	18.2
20°-30°	835.5	24.6
30°-40°	716.9	21.1
40°-50°	423.3	12.5
50°-60°	268.3	7.9
60°-70°	180.3	5.3
70°-80°	99.5	2.9
80°-90°	27.9	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°	1677.1	49.4
0°-40°	2394.0	70.6
0°-60°	3085.6	90.9
0°-90°	3393.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2417	
5°	2390	225
15°	2197	616
25°	1835	835
35°	1152	717
45°	530	423
55°	294	268
65°	180	180
75°	94	99
85°	25	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2416.8
2.5°	2399.5
5°	2389.6
7.5°	2357.6
10°	2300.9
12.5°	2251.6
15°	2197.3
17.5°	2128.3
20°	2042.0
22.5°	1945.8
25°	1834.8
27.5°	1704.1
30°	1543.8
32.5°	1353.9
35°	1151.7
37.5°	956.9
40°	781.7
42.5°	636.3
45°	530.2
47.5°	453.8
50°	392.2
52.5°	340.3
55°	293.5
57.5°	256.5
60°	231.8
62.5°	207.2
65°	180.1
67.5°	157.8
70°	135.7
72.5°	113.4
75°	93.7
77.5°	74.0
80°	56.8
82.5°	39.5
85°	24.6
87.5°	9.9
90°	0.0



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— 0°-180°







(END OF REPORT)