

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: P580464

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040840-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3486.9 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

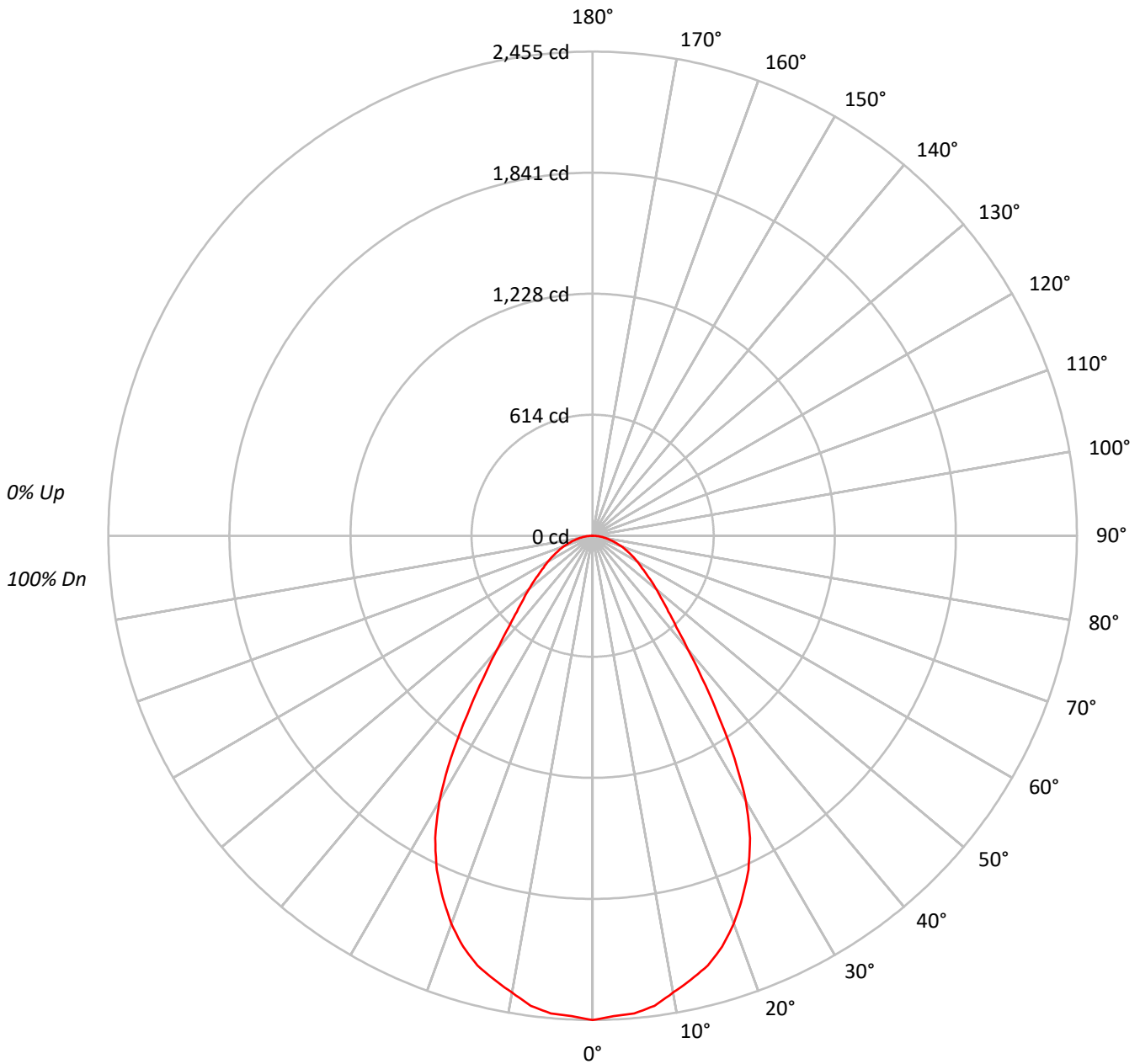
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	302863
5°	300974
10°	294572
15°	288058
20°	274731
25°	254311
30°	221204
35°	167050
40°	121084
45°	94597
50°	80902
55°	69976
60°	64460
65°	59014
70°	55142
75°	50517
80°	47236
85°	45287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	6.6
10°-20°	631.9	18.1
20°-30°	849.6	24.4
30°-40°	698.7	20.0
40°-50°	429.1	12.3
50°-60°	296.9	8.5
60°-70°	202.5	5.8
70°-80°	112.8	3.2
80°-90°	35.9	1.0
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°	1711.1	49.1
0°-40°	2409.8	69.1
0°-60°	3135.7	89.9
0°-90°	3486.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3486.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2455	
5°	2431	230
15°	2256	632
25°	1869	850
35°	1109	699
45°	542	429
55°	325	297
65°	202	202
75°	106	113
85°	32	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2455.4
2.5°	2438.2
5°	2430.8
7.5°	2403.7
10°	2351.9
12.5°	2305.0
15°	2255.8
17.5°	2184.3
20°	2093.0
22.5°	1984.5
25°	1868.6
27.5°	1728.2
30°	1553.1
32.5°	1338.7
35°	1109.4
37.5°	912.1
40°	752.0
42.5°	628.7
45°	542.3
47.5°	475.8
50°	421.6
52.5°	372.3
55°	325.4
57.5°	290.9
60°	261.3
62.5°	231.8
65°	202.2
67.5°	177.5
70°	152.9
72.5°	128.2
75°	106.0
77.5°	83.9
80°	66.5
82.5°	49.3
85°	32.0
87.5°	17.3
90°	0.0



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— 0°-180°







(END OF REPORT)