

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: P580895

Luminaire Tested: **HC450D010-HM44560840-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580895
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: HC450D010-HM44560840-41NDW
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: 4932.5 lumens
Efficiency: N/A
Efficacy: 102.8 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

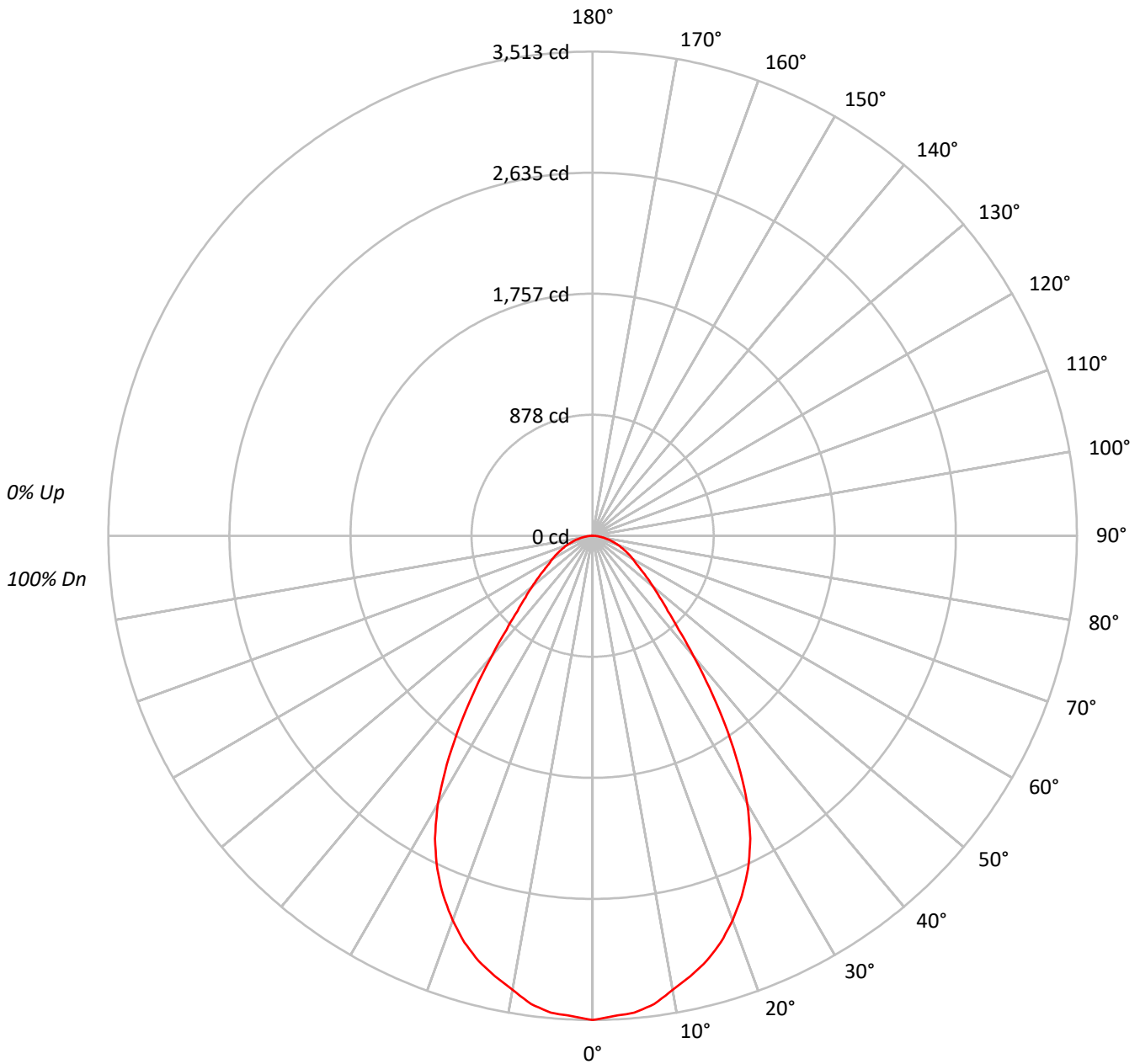
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	433338
5°	430115
10°	418918
15°	407876
20°	389624
25°	362997
30°	319621
35°	252081
40°	182979
45°	134456
50°	109378
55°	91739
60°	83135
65°	76380
70°	71118
75°	64957
80°	58601
85°	50807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.5	6.6
10°-20°	895.9	18.2
20°-30°	1214.5	24.6
30°-40°	1042.1	21.1
40°-50°	615.4	12.5
50°-60°	389.9	7.9
60°-70°	262.0	5.3
70°-80°	144.7	2.9
80°-90°	40.5	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°	2437.9	49.4
0°-40°	3480.0	70.6
0°-60°	4485.3	90.9
0°-90°	4932.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4932.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3513	
5°	3474	328
15°	3194	896
25°	2667	1214
35°	1674	1042
45°	771	615
55°	427	390
65°	262	262
75°	136	145
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3513.2
2.5°	3488.0
5°	3473.8
7.5°	3427.2
10°	3344.7
12.5°	3273.0
15°	3194.1
17.5°	3093.7
20°	2968.3
22.5°	2828.5
25°	2667.2
27.5°	2477.1
30°	2244.1
32.5°	1968.1
35°	1674.1
37.5°	1390.9
40°	1136.4
42.5°	924.9
45°	770.8
47.5°	659.7
50°	570.0
52.5°	494.7
55°	426.6
57.5°	372.8
60°	337.0
62.5°	301.1
65°	261.7
67.5°	229.5
70°	197.2
72.5°	164.9
75°	136.3
77.5°	107.6
80°	82.5
82.5°	57.3
85°	35.9
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)