

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: P581158

Luminaire Tested: **HC455D010-HM44560835-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560835-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4574.9 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

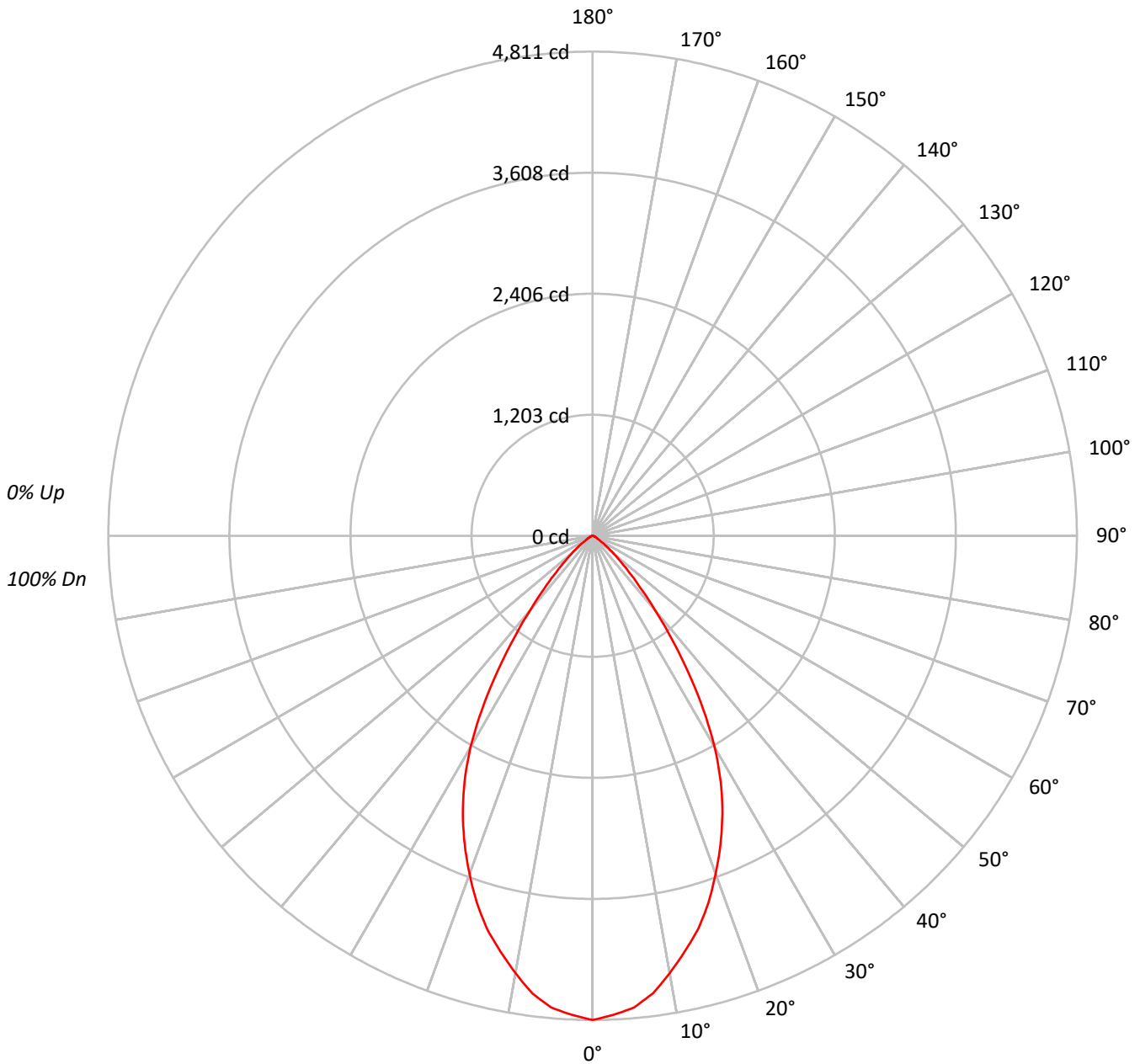
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86				86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79				79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73				73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67				67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63				63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54				54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51				51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48				48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	593379
5°	582595
10°	552596
15°	516700
20°	469274
25°	415259
30°	345415
35°	249070
40°	155461
45°	89661
50°	50583
55°	24085
60°	13815
65°	10565
70°	7141
75°	4718
80°	4688
85°	4670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.8	9.6
10°-20°	1128.8	24.7
20°-30°	1388.3	30.3
30°-40°	1031.0	22.5
40°-50°	419.2	9.2
50°-60°	116.0	2.5
60°-70°	36.1	0.8
70°-80°	12.1	0.3
80°-90°	3.6	0.1
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°	2956.8	64.6
0°-40°	3987.9	87.2
0°-60°	4523.1	98.9
0°-90°	4574.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4574.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4811	
5°	4705	440
15°	4046	1129
25°	3051	1388
35°	1654	1031
45°	514	419
55°	112	116
65°	36	36
75°	10	12
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4810.7
2.5°	4764.6
5°	4705.3
7.5°	4586.7
10°	4412.0
12.5°	4230.8
15°	4046.3
17.5°	3825.6
20°	3575.1
22.5°	3321.3
25°	3051.2
27.5°	2757.9
30°	2425.2
32.5°	2046.3
35°	1654.1
37.5°	1285.1
40°	965.5
42.5°	705.2
45°	514.0
47.5°	369.0
50°	263.6
52.5°	181.2
55°	112.0
57.5°	72.4
60°	56.0
62.5°	46.1
65°	36.2
67.5°	26.3
70°	19.8
72.5°	16.4
75°	9.9
77.5°	6.6
80°	6.6
82.5°	3.3
85°	3.3
87.5°	3.3
90°	0.0



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— 0°-180°







(END OF REPORT)