

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: P581201

Luminaire Tested: **HC455D010-HM44560927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581201
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: HC455D010-HM44560927-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3520.8 lumens
Efficiency: N/A
Efficacy: 67.7 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

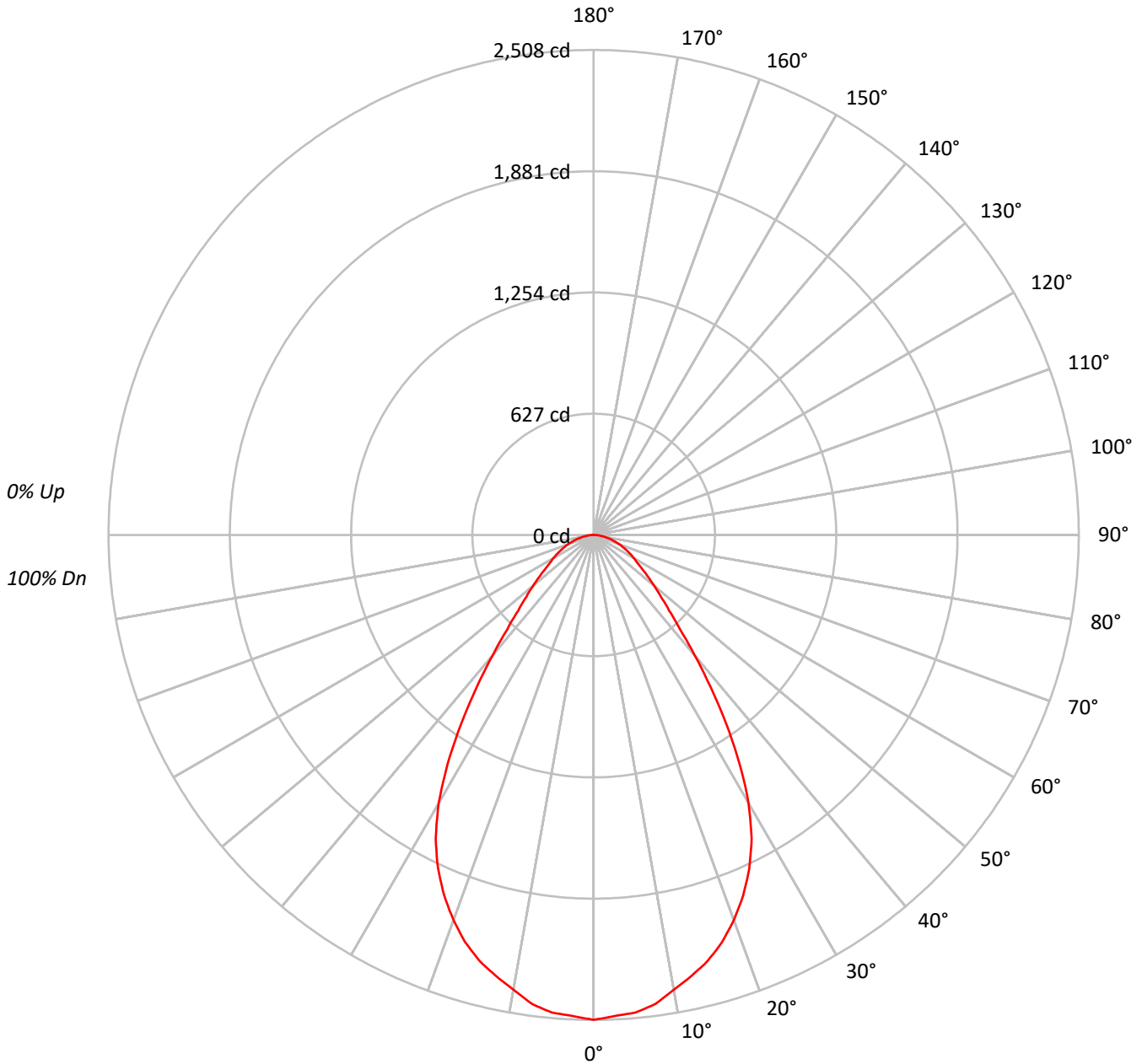
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79		
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58		
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52		
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48		
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	309326
5°	307028
10°	299043
15°	291149
20°	278117
25°	259128
30°	228154
35°	179955
40°	130616
45°	95975
50°	78081
55°	65482
60°	59329
65°	54549
70°	50742
75°	46323
80°	41767
85°	36088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	6.6
10°-20°	639.5	18.2
20°-30°	866.9	24.6
30°-40°	743.9	21.1
40°-50°	439.3	12.5
50°-60°	278.3	7.9
60°-70°	187.0	5.3
70°-80°	103.2	2.9
80°-90°	28.8	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°	1740.3	49.4
0°-40°	2484.2	70.6
0°-60°	3201.8	90.9
0°-90°	3520.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3520.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2508	
5°	2480	234
15°	2280	640
25°	1904	867
35°	1195	744
45°	550	439
55°	304	278
65°	187	187
75°	97	103
85°	26	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2507.8
2.5°	2490.0
5°	2479.7
7.5°	2446.4
10°	2387.6
12.5°	2336.4
15°	2280.0
17.5°	2208.4
20°	2118.8
22.5°	2019.0
25°	1904.0
27.5°	1768.3
30°	1601.9
32.5°	1404.9
35°	1195.1
37.5°	992.9
40°	811.2
42.5°	660.3
45°	550.2
47.5°	470.8
50°	406.9
52.5°	353.1
55°	304.5
57.5°	266.2
60°	240.5
62.5°	215.0
65°	186.9
67.5°	163.8
70°	140.7
72.5°	117.7
75°	97.2
77.5°	76.7
80°	58.8
82.5°	40.9
85°	25.5
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)