

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: P581345

Luminaire Tested: **HC460D010-HM44560927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581345
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: HC460D010-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: 3663.2 lumens
Efficiency: N/A
Efficacy: 66.6 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

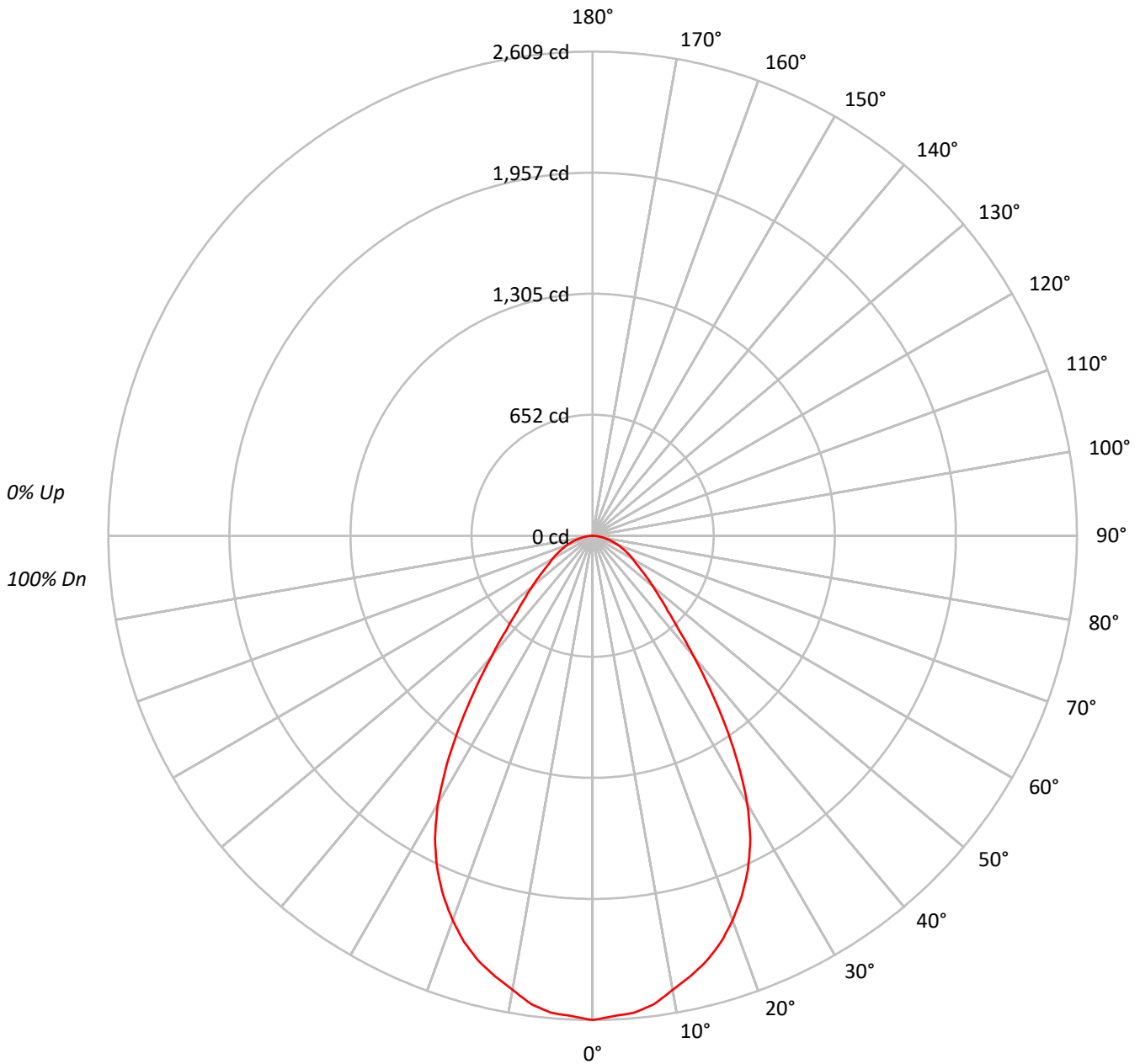
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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																			
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°	321833
5°	319423
10°	311117
15°	302922
20°	289366
25°	269581
30°	237369
35°	187213
40°	135898
45°	99865
50°	81228
55°	68148
60°	61747
65°	56738
70°	52797
75°	48229
80°	43543
85°	37645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	6.6
10°-20°	665.4	18.2
20°-30°	901.9	24.6
30°-40°	774.0	21.1
40°-50°	457.0	12.5
50°-60°	289.6	7.9
60°-70°	194.6	5.3
70°-80°	107.4	2.9
80°-90°	30.0	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°	1810.5	49.4
0°-40°	2584.5	70.6
0°-60°	3331.1	90.9
0°-90°	3663.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2609	
5°	2580	243
15°	2372	665
25°	1981	902
35°	1243	774
45°	572	457
55°	317	290
65°	194	195
75°	101	107
85°	27	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2609.2
2.5°	2590.5
5°	2579.8
7.5°	2545.2
10°	2484.0
12.5°	2430.7
15°	2372.2
17.5°	2297.6
20°	2204.5
22.5°	2100.6
25°	1980.8
27.5°	1839.7
30°	1666.6
32.5°	1461.7
35°	1243.3
37.5°	1033.0
40°	844.0
42.5°	686.8
45°	572.5
47.5°	489.9
50°	423.3
52.5°	367.4
55°	316.9
57.5°	276.9
60°	250.3
62.5°	223.7
65°	194.4
67.5°	170.4
70°	146.4
72.5°	122.5
75°	101.2
77.5°	79.9
80°	61.3
82.5°	42.6
85°	26.6
87.5°	10.6
90°	0.0



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— 0°-180°







(END OF REPORT)