

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: P581382

Luminaire Tested: **HC460D010-HM44560935-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581382
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: HC460D010-HM44560935-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4256.2 lumens
Efficiency: N/A
Efficacy: 77.4 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

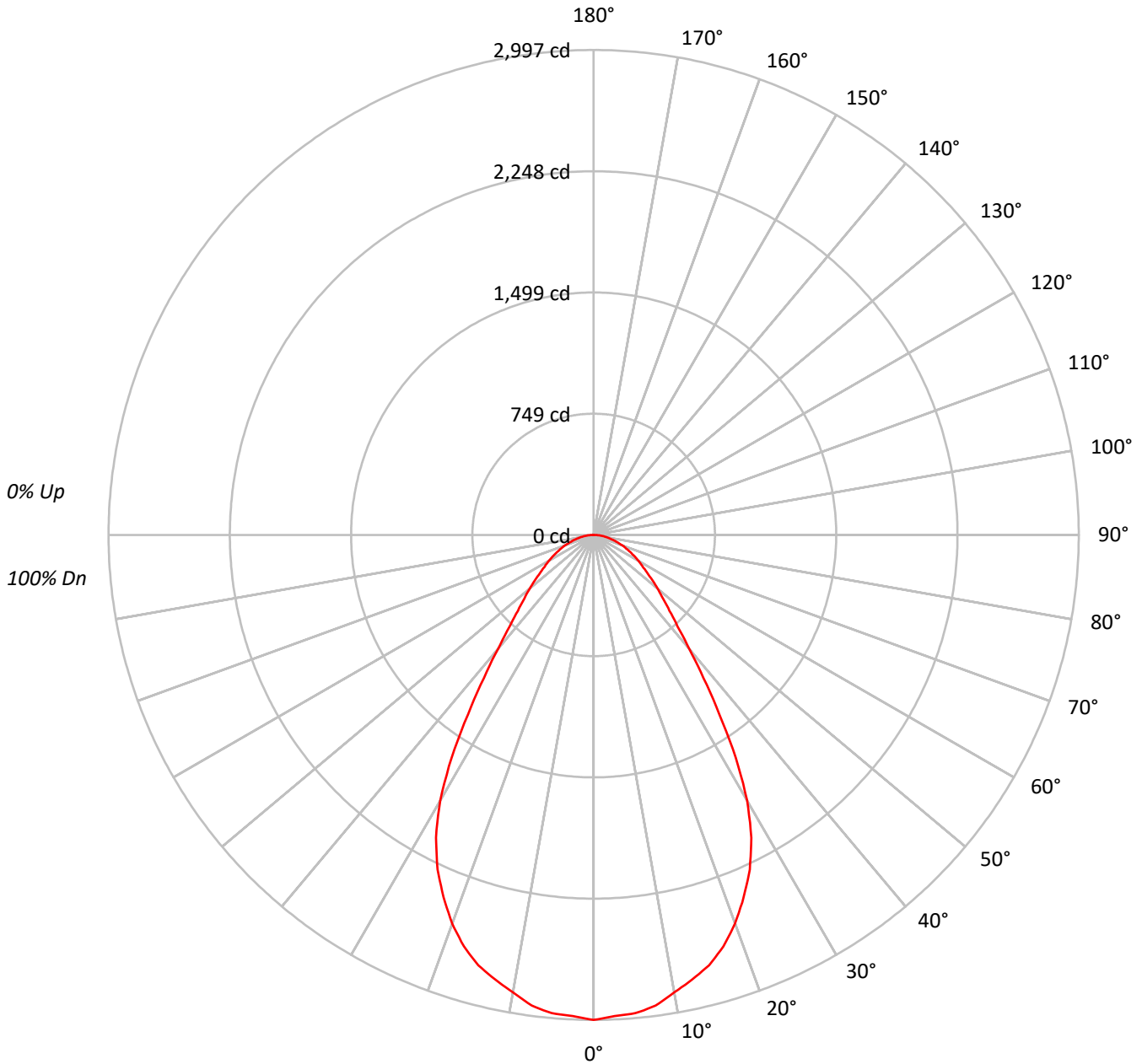
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78		
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63		
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57		
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	369692
5°	367377
10°	359576
15°	351600
20°	335347
25°	310437
30°	270014
35°	203912
40°	147797
45°	115477
50°	98747
55°	85416
60°	78695
65°	72031
70°	67295
75°	61668
80°	57678
85°	55336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	6.6
10°-20°	771.3	18.1
20°-30°	1037.1	24.4
30°-40°	852.8	20.0
40°-50°	523.7	12.3
50°-60°	362.4	8.5
60°-70°	247.1	5.8
70°-80°	137.7	3.2
80°-90°	43.8	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°	2088.6	49.1
0°-40°	2941.5	69.1
0°-60°	3827.6	89.9
0°-90°	4256.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4256.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2997	
5°	2967	280
15°	2753	771
25°	2281	1037
35°	1354	853
45°	662	524
55°	397	362
65°	247	247
75°	129	138
85°	39	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2997.2
2.5°	2976.1
5°	2967.1
7.5°	2934.0
10°	2870.9
12.5°	2813.7
15°	2753.4
17.5°	2666.1
20°	2554.8
22.5°	2422.5
25°	2281.0
27.5°	2109.5
30°	1895.8
32.5°	1634.0
35°	1354.2
37.5°	1113.4
40°	917.9
42.5°	767.4
45°	662.0
47.5°	580.8
50°	514.6
52.5°	454.4
55°	397.2
57.5°	355.1
60°	319.0
62.5°	282.9
65°	246.8
67.5°	216.7
70°	186.6
72.5°	156.5
75°	129.4
77.5°	102.3
80°	81.2
82.5°	60.2
85°	39.1
87.5°	21.1
90°	0.0



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— 0°-180°







(END OF REPORT)