

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: P581267

Luminaire Tested: **HC460D010-HM44560827-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560827-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4905.6 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

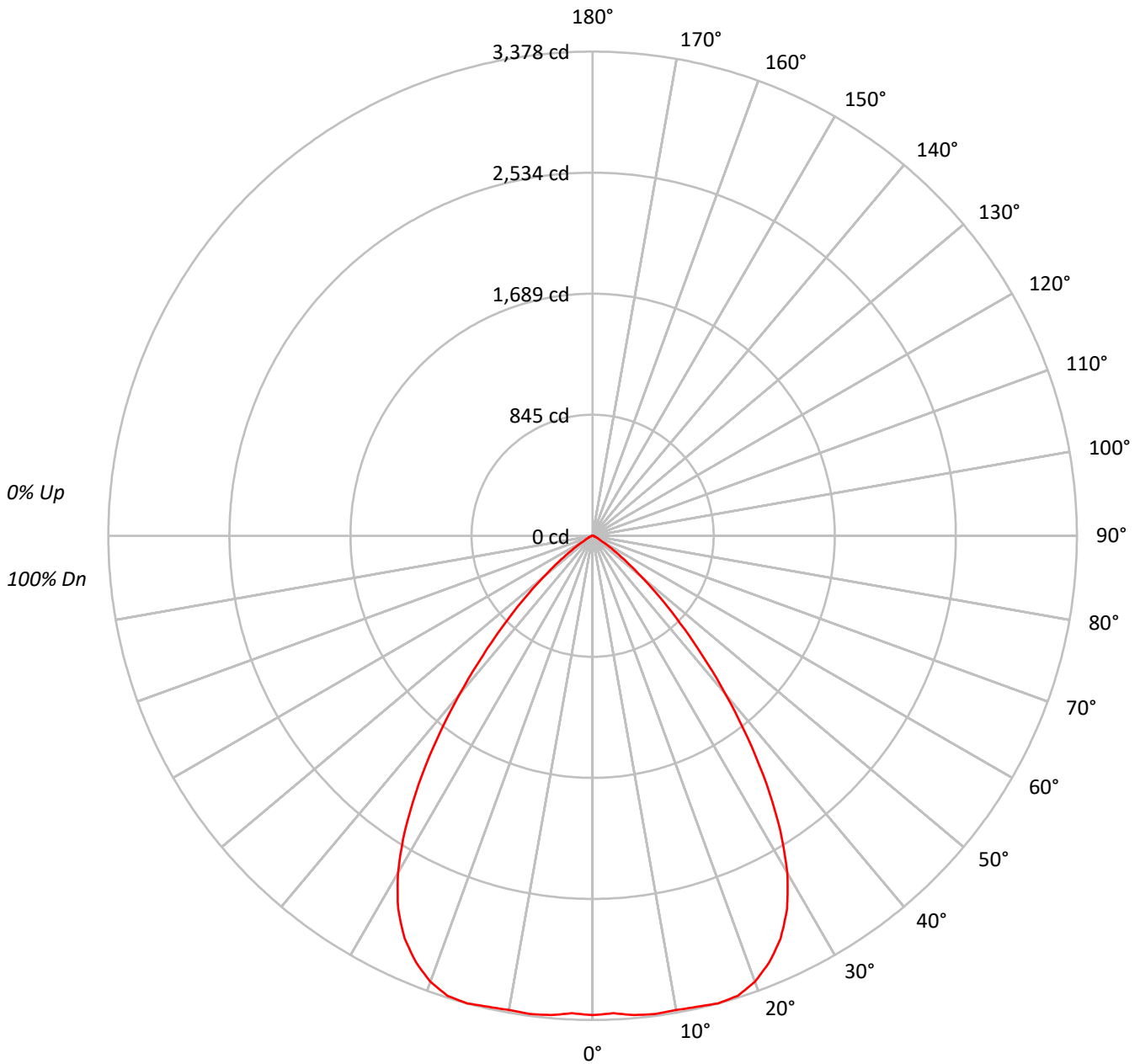
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63				63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58				58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53				53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	412443
5°	415542
10°	420747
15°	431321
20°	434489
25°	422050
30°	386961
35°	318396
40°	232105
45°	150644
50°	84931
55°	40321
60°	15912
65°	9865
70°	6636
75°	4384
80°	2131
85°	4246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.5	6.5
10°-20°	952.3	19.4
20°-30°	1412.4	28.8
30°-40°	1304.6	26.6
40°-50°	681.2	13.9
50°-60°	186.7	3.8
60°-70°	35.9	0.7
70°-80°	10.1	0.2
80°-90°	2.0	0.0
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°	2685.1	54.7
0°-40°	3989.7	81.3
0°-60°	4857.6	99.0
0°-90°	4905.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4905.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3344	
5°	3356	320
15°	3378	952
25°	3101	1412
35°	2114	1305
45°	864	681
55°	188	187
65°	34	36
75°	9	10
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3343.8
2.5°	3334.7
5°	3356.1
7.5°	3365.4
10°	3359.3
12.5°	3365.4
15°	3377.7
17.5°	3365.4
20°	3310.1
22.5°	3220.9
25°	3101.1
27.5°	2938.2
30°	2716.9
32.5°	2437.3
35°	2114.5
37.5°	1776.5
40°	1441.5
42.5°	1134.1
45°	863.6
47.5°	633.1
50°	442.6
52.5°	295.1
55°	187.5
57.5°	110.7
60°	64.5
62.5°	46.1
65°	33.8
67.5°	24.6
70°	18.4
72.5°	12.3
75°	9.2
77.5°	6.1
80°	3.0
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)