

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: P581309

Luminaire Tested: **HC460D010-HM44560835-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581309
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-HM44560835-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4718.6 lumens
Efficiency: N/A
Efficacy: 85.8 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

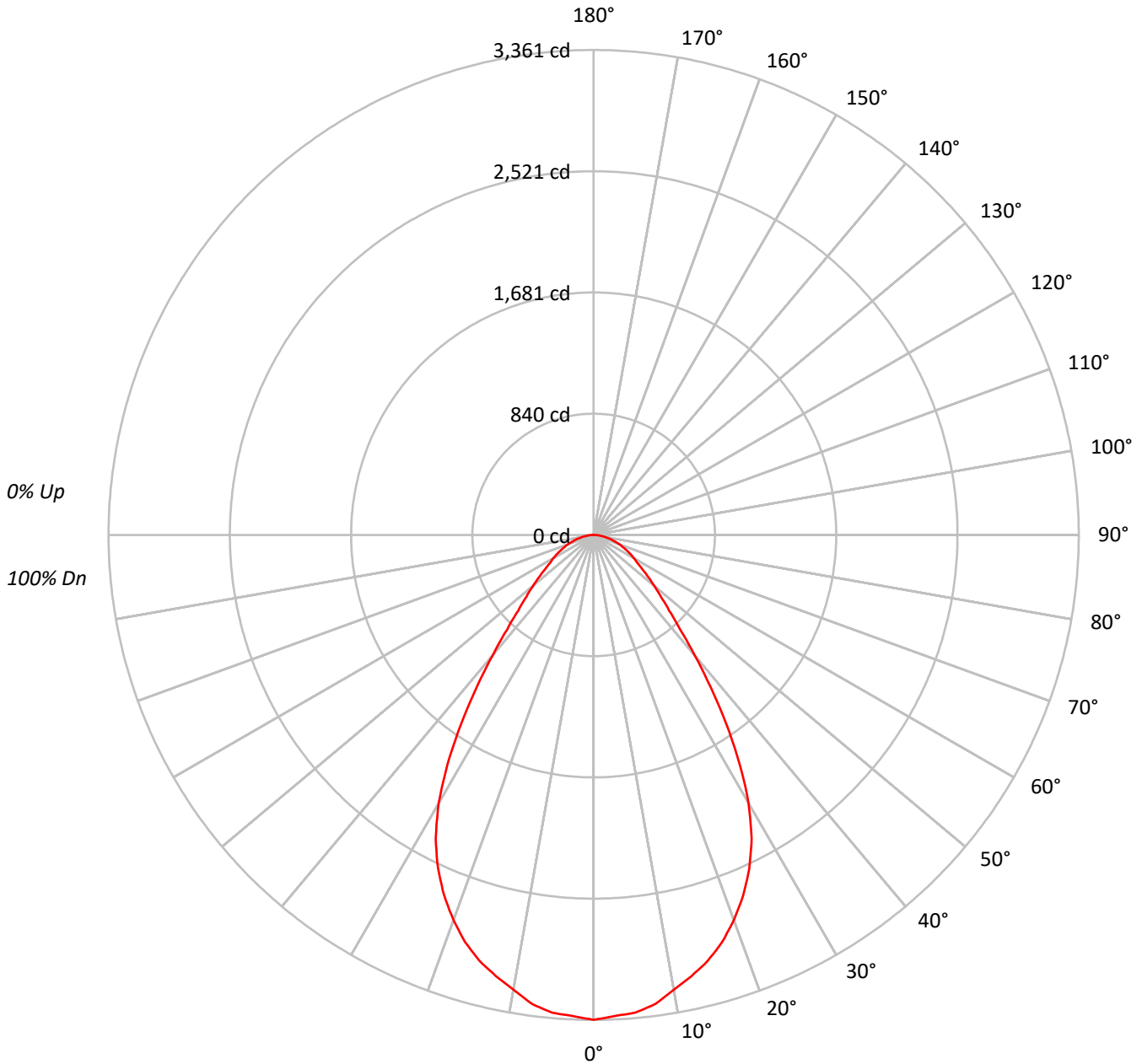
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	414552
5°	411468
10°	400757
15°	390190
20°	372731
25°	347251
30°	305777
35°	241149
40°	175057
45°	128630
50°	104639
55°	87760
60°	79533
65°	73053
70°	68016
75°	62097
80°	55973
85°	48542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.3	6.6
10°-20°	857.1	18.2
20°-30°	1161.8	24.6
30°-40°	996.9	21.1
40°-50°	588.7	12.5
50°-60°	373.1	7.9
60°-70°	250.6	5.3
70°-80°	138.3	2.9
80°-90°	38.7	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°	2332.2	49.4
0°-40°	3329.2	70.6
0°-60°	4290.9	90.9
0°-90°	4718.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4718.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3361	
5°	3323	313
15°	3056	857
25°	2552	1162
35°	1602	997
45°	737	589
55°	408	373
65°	250	251
75°	130	138
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3360.9
2.5°	3337.0
5°	3323.2
7.5°	3278.6
10°	3199.7
12.5°	3131.1
15°	3055.6
17.5°	2959.6
20°	2839.6
22.5°	2705.8
25°	2551.5
27.5°	2369.8
30°	2146.9
32.5°	1882.7
35°	1601.5
37.5°	1330.7
40°	1087.2
42.5°	884.8
45°	737.4
47.5°	631.0
50°	545.3
52.5°	473.3
55°	408.1
57.5°	356.7
60°	322.4
62.5°	288.1
65°	250.3
67.5°	219.5
70°	188.6
72.5°	157.8
75°	130.3
77.5°	102.9
80°	78.8
82.5°	54.8
85°	34.3
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)