

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: P581354

Luminaire Tested: **HC460D010-HM44560930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4667.3 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

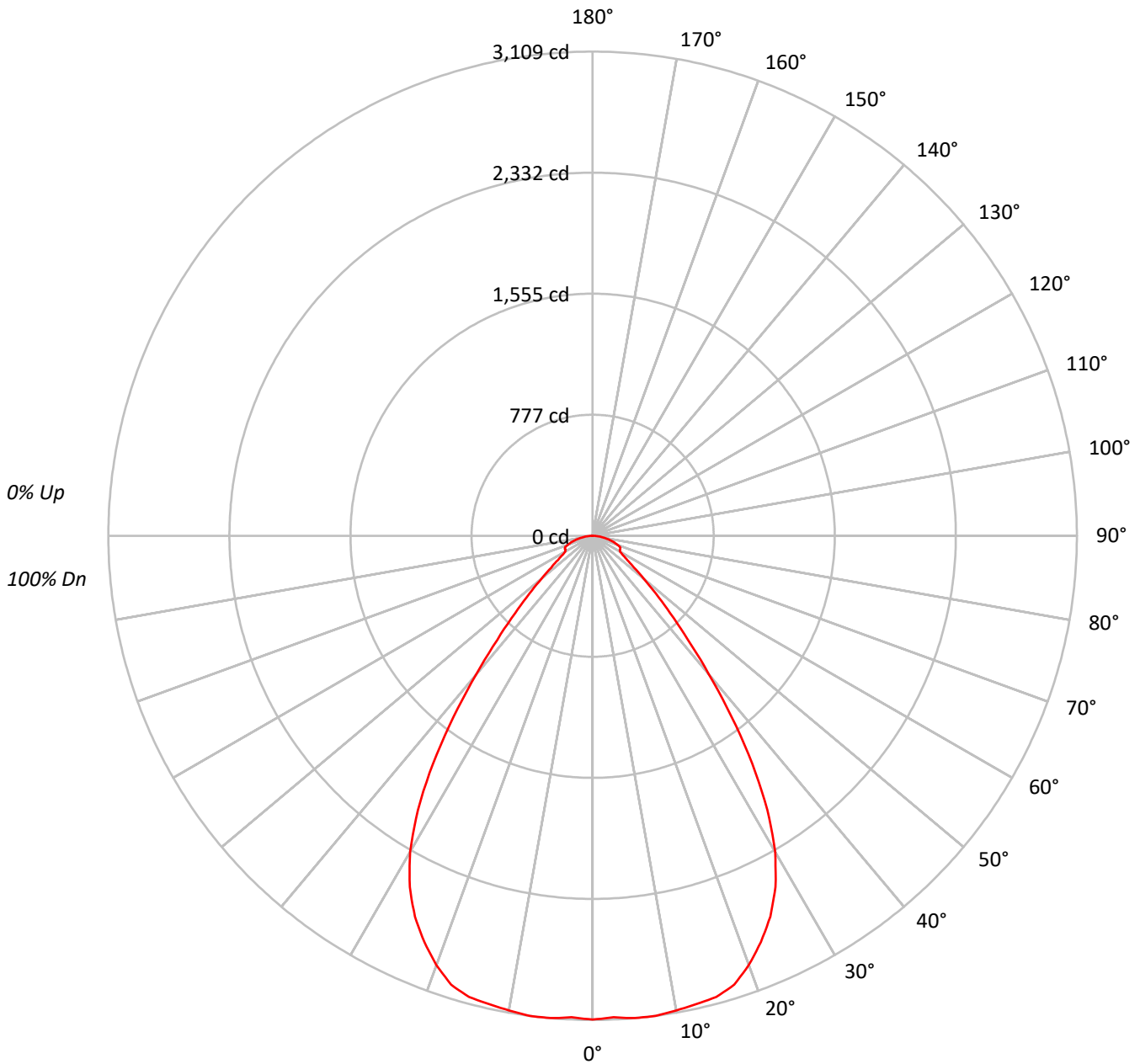
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	383161
5°	384984
10°	387631
15°	391506
20°	384977
25°	367271
30°	333693
35°	269157
40°	186747
45°	122612
50°	82149
55°	58450
60°	49955
65°	57409
70°	61561
75°	59285
80°	53416
85°	49109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	6.3
10°-20°	861.3	18.5
20°-30°	1230.5	26.4
30°-40°	1099.3	23.6
40°-50°	563.8	12.1
50°-60°	256.3	5.5
60°-70°	191.2	4.1
70°-80°	130.1	2.8
80°-90°	38.5	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°	2388.1	51.2
0°-40°	3487.4	74.7
0°-60°	4307.5	92.3
0°-90°	4667.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4667.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3106	
5°	3109	296
15°	3066	861
25°	2699	1231
35°	1788	1099
45°	703	564
55°	272	256
65°	197	191
75°	124	130
85°	35	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3106.4
2.5°	3094.9
5°	3109.3
7.5°	3109.3
10°	3094.9
12.5°	3080.3
15°	3065.9
17.5°	3022.6
20°	2932.9
22.5°	2822.9
25°	2698.6
27.5°	2542.4
30°	2342.9
32.5°	2088.3
35°	1787.5
37.5°	1466.4
40°	1159.8
42.5°	905.3
45°	702.9
47.5°	549.6
50°	428.1
52.5°	335.5
55°	271.8
57.5°	228.5
60°	202.5
62.5°	196.7
65°	196.7
67.5°	190.9
70°	170.7
72.5°	147.5
75°	124.4
77.5°	98.4
80°	75.2
82.5°	54.9
85°	34.7
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)