

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: P581264

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581264
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-HM44560827-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4957.8 lumens
Efficiency: N/A
Efficacy: 90.1 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

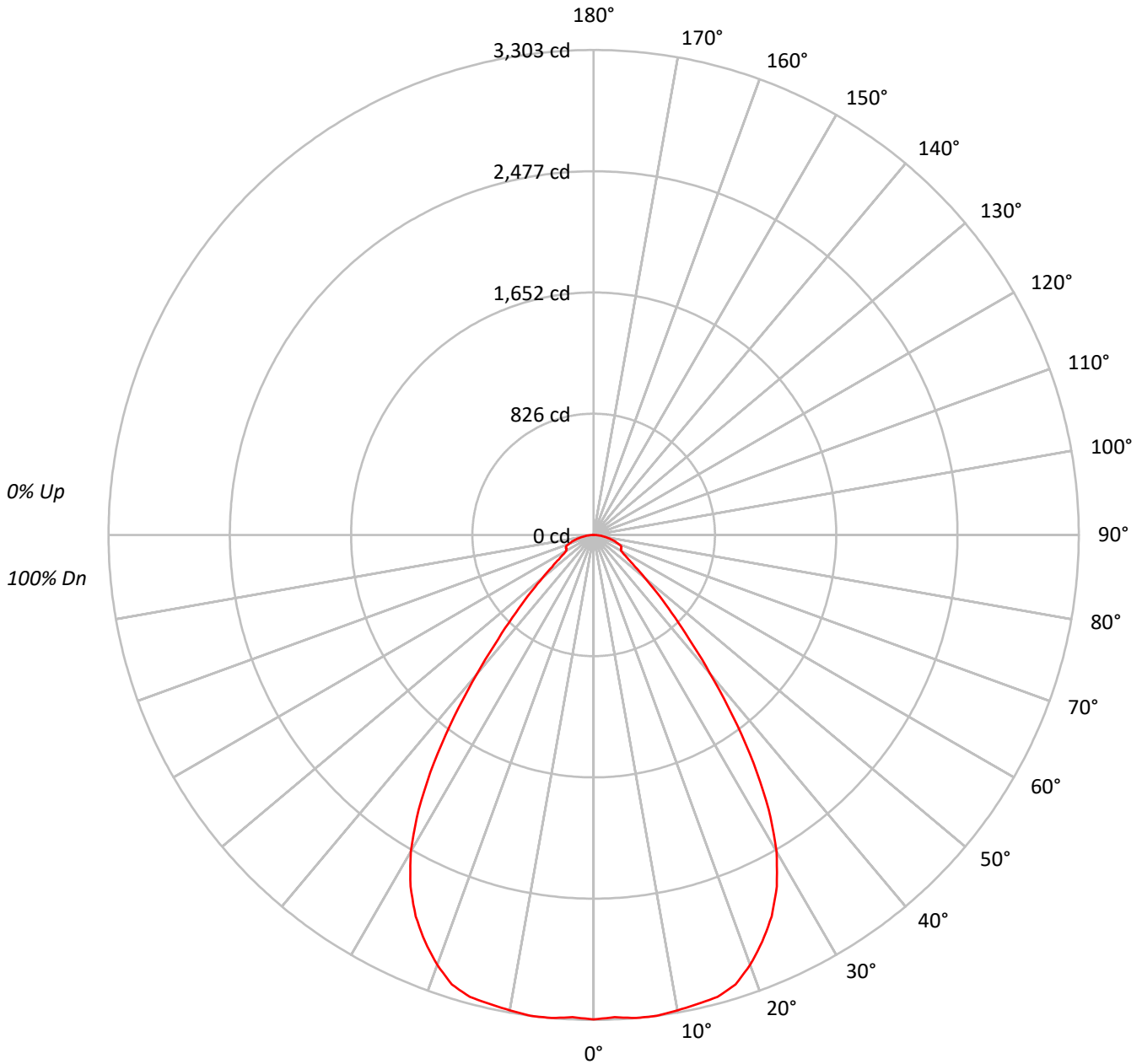
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	407028
5°	408954
10°	411767
15°	415883
20°	408933
25°	390135
30°	354459
35°	285916
40°	198372
45°	130235
50°	87253
55°	62105
60°	53063
65°	60970
70°	65384
75°	62955
80°	56755
85°	52222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	6.3
10°-20°	914.9	18.5
20°-30°	1307.2	26.4
30°-40°	1167.7	23.6
40°-50°	598.9	12.1
50°-60°	272.2	5.5
60°-70°	203.0	4.1
70°-80°	138.2	2.8
80°-90°	41.0	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°	2536.8	51.2
0°-40°	3704.5	74.7
0°-60°	4575.7	92.3
0°-90°	4957.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4957.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3300	
5°	3303	315
15°	3257	915
25°	2867	1307
35°	1899	1168
45°	747	599
55°	289	272
65°	209	203
75°	132	138
85°	37	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3299.9
2.5°	3287.6
5°	3302.9
7.5°	3302.9
10°	3287.6
12.5°	3272.2
15°	3256.8
17.5°	3210.7
20°	3115.4
22.5°	2998.7
25°	2866.6
27.5°	2700.7
30°	2488.7
32.5°	2218.3
35°	1898.8
37.5°	1557.8
40°	1232.0
42.5°	961.7
45°	746.6
47.5°	583.7
50°	454.7
52.5°	356.4
55°	288.8
57.5°	242.7
60°	215.1
62.5°	208.9
65°	208.9
67.5°	202.8
70°	181.3
72.5°	156.7
75°	132.1
77.5°	104.5
80°	79.9
82.5°	58.4
85°	36.9
87.5°	15.3
90°	0.0



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— 0°-180°







(END OF REPORT)