

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: P581192

Luminaire Tested: **HC455D010-HM44560927-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581192
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: HC455D010-HM44560927-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4129.8 lumens
Efficiency: N/A
Efficacy: 79.4 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

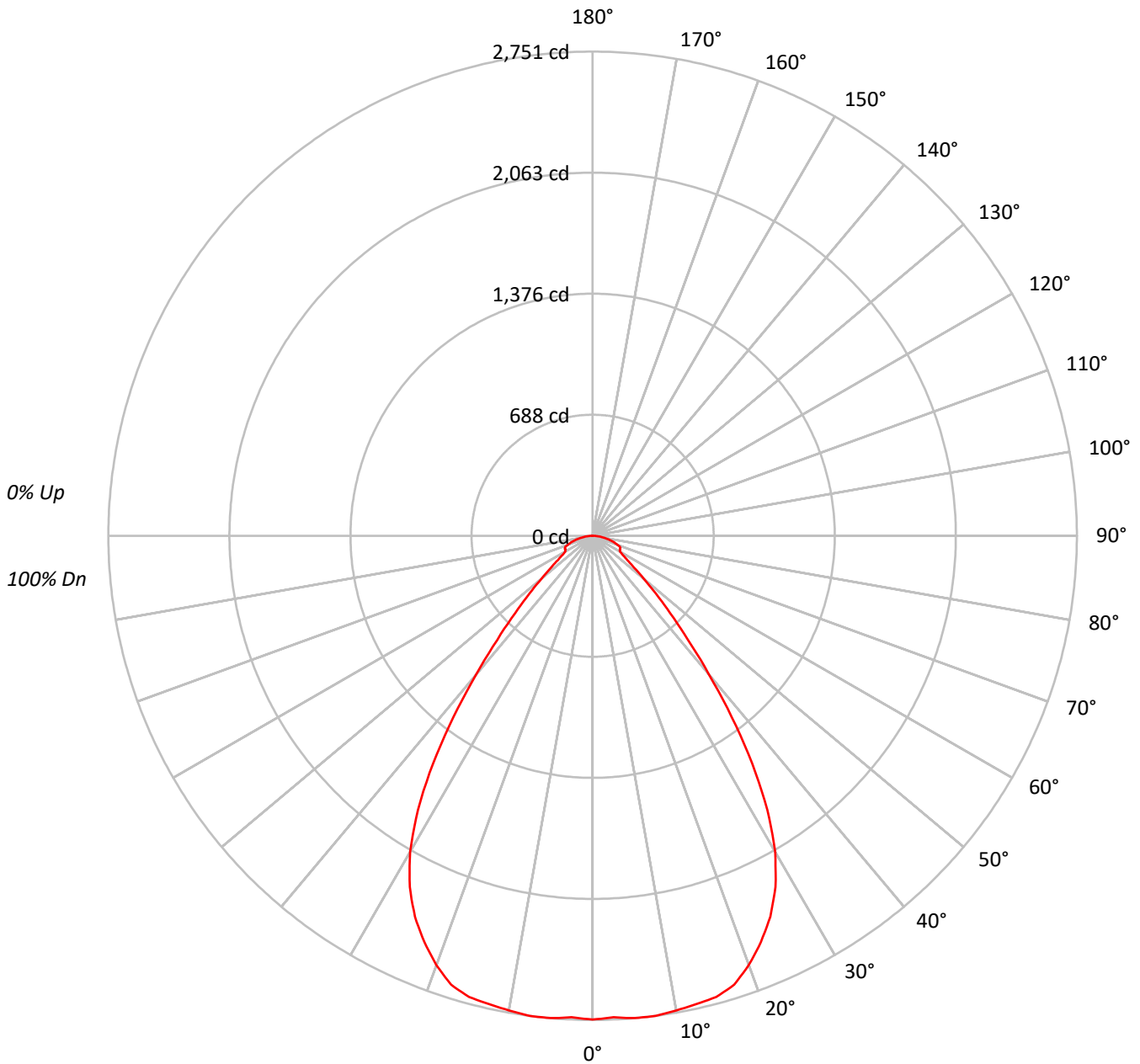
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	339040
5°	340657
10°	342993
15°	346429
20°	340650
25°	324986
30°	295252
35°	238153
40°	165251
45°	108482
50°	72689
55°	51719
60°	44182
65°	50784
70°	54456
75°	52423
80°	47236
85°	43448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	6.3
10°-20°	762.1	18.5
20°-30°	1088.9	26.4
30°-40°	972.7	23.6
40°-50°	498.9	12.1
50°-60°	226.8	5.5
60°-70°	169.1	4.1
70°-80°	115.0	2.8
80°-90°	34.1	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°	2113.2	51.2
0°-40°	3085.9	74.7
0°-60°	3811.5	92.3
0°-90°	4129.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4129.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2749	
5°	2751	262
15°	2713	762
25°	2388	1089
35°	1582	973
45°	622	499
55°	240	227
65°	174	169
75°	110	115
85°	31	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2748.7
2.5°	2738.5
5°	2751.3
7.5°	2751.3
10°	2738.5
12.5°	2725.8
15°	2712.9
17.5°	2674.6
20°	2595.2
22.5°	2498.0
25°	2387.9
27.5°	2249.7
30°	2073.0
32.5°	1847.8
35°	1581.6
37.5°	1297.6
40°	1026.3
42.5°	801.1
45°	621.9
47.5°	486.2
50°	378.8
52.5°	296.9
55°	240.5
57.5°	202.2
60°	179.1
62.5°	174.0
65°	174.0
67.5°	168.9
70°	151.0
72.5°	130.5
75°	110.0
77.5°	87.0
80°	66.5
82.5°	48.6
85°	30.7
87.5°	12.8
90°	0.0



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— 0°-180°







(END OF REPORT)