

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: P581210

Luminaire Tested: **HC455D010-HM44560930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581210
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-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: 4486.1 lumens
Efficiency: N/A
Efficacy: 86.3 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

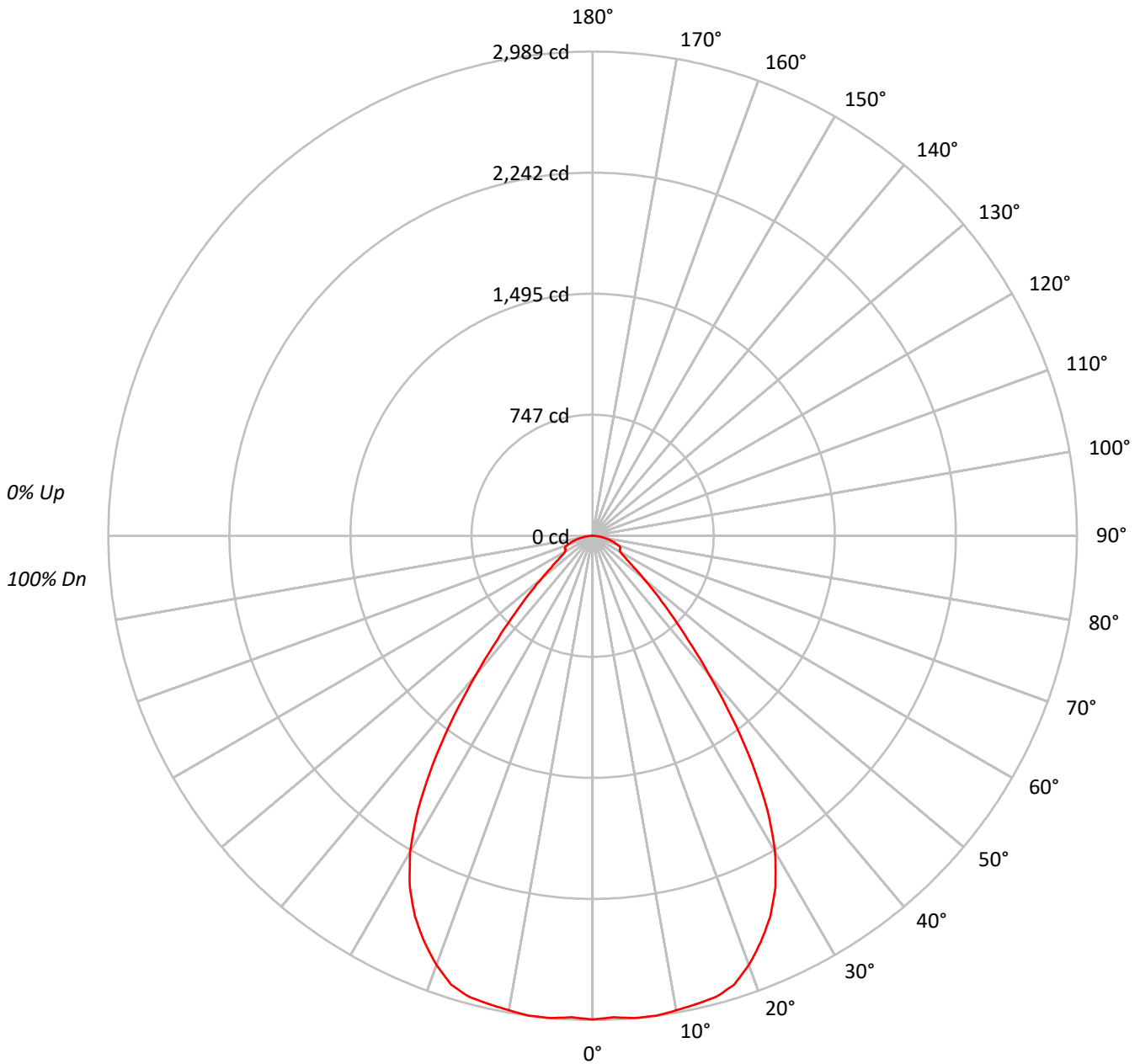
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	368298
5°	370039
10°	372577
15°	376310
20°	370027
25°	353008
30°	320732
35°	258707
40°	179501
45°	117850
50°	78944
55°	56192
60°	48006
65°	55162
70°	59145
75°	56998
80°	51356
85°	47269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	6.3
10°-20°	827.8	18.5
20°-30°	1182.8	26.4
30°-40°	1056.6	23.6
40°-50°	541.9	12.1
50°-60°	246.3	5.5
60°-70°	183.7	4.1
70°-80°	125.0	2.8
80°-90°	37.1	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°	2295.4	51.2
0°-40°	3352.0	74.7
0°-60°	4140.3	92.3
0°-90°	4486.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4486.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2986	
5°	2989	285
15°	2947	828
25°	2594	1183
35°	1718	1057
45°	676	542
55°	261	246
65°	189	184
75°	120	125
85°	33	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2985.9
2.5°	2974.7
5°	2988.6
7.5°	2988.6
10°	2974.7
12.5°	2960.8
15°	2946.9
17.5°	2905.2
20°	2819.0
22.5°	2713.4
25°	2593.8
27.5°	2443.7
30°	2251.9
32.5°	2007.2
35°	1718.1
37.5°	1409.5
40°	1114.8
42.5°	870.2
45°	675.6
47.5°	528.2
50°	411.4
52.5°	322.5
55°	261.3
57.5°	219.6
60°	194.6
62.5°	189.0
65°	189.0
67.5°	183.5
70°	164.0
72.5°	141.8
75°	119.6
77.5°	94.5
80°	72.3
82.5°	52.9
85°	33.4
87.5°	14.0
90°	0.0



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— 0°-180°







(END OF REPORT)