

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: P592937

Luminaire Tested: **HC455D010-HM44560950-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560950-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4059.1 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

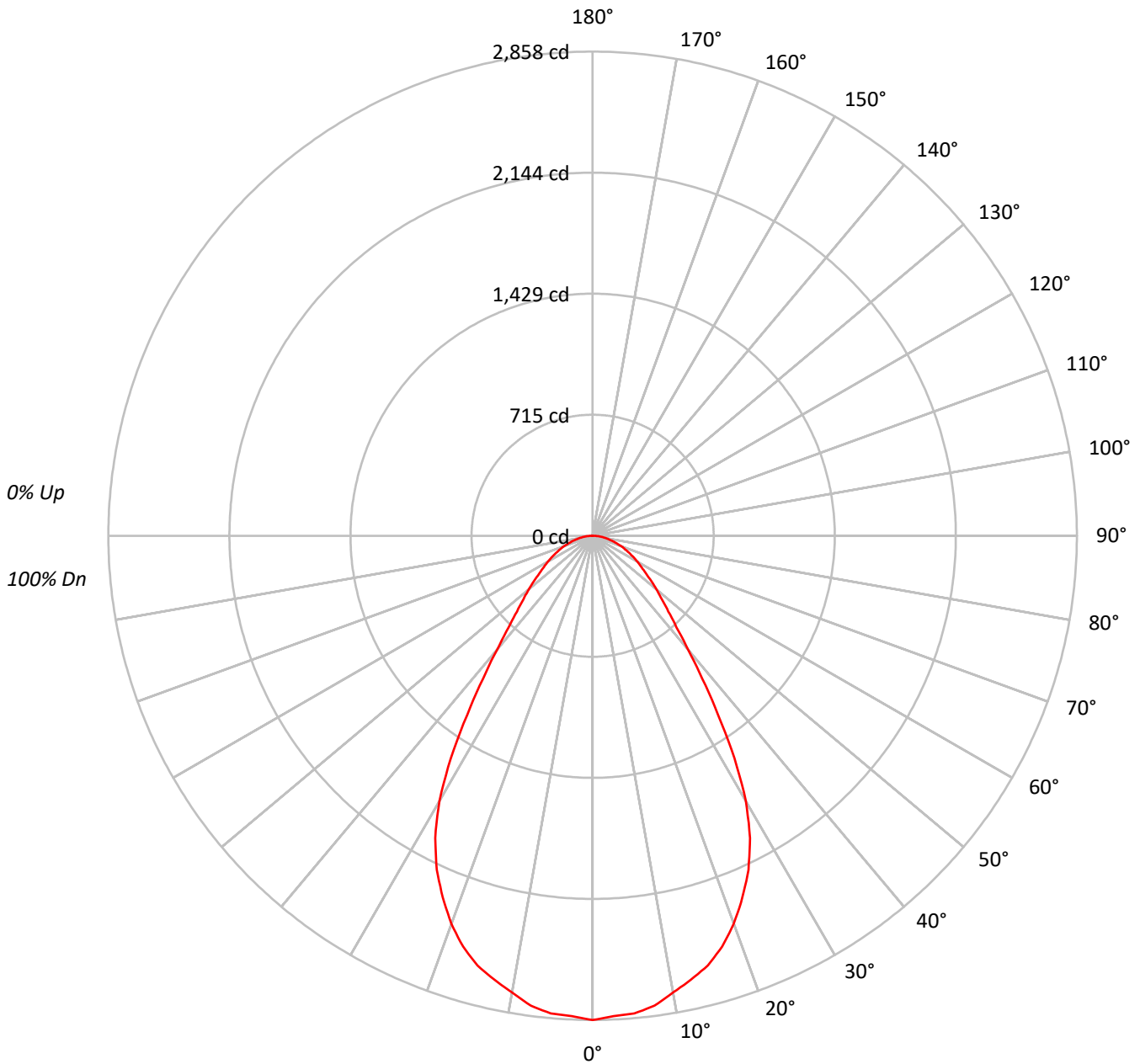
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	352571
5°	350364
10°	342905
15°	335319
20°	319819
25°	296051
30°	257508
35°	194455
40°	140921
45°	110140
50°	94161
55°	81460
60°	75043
65°	68704
70°	64194
75°	58809
80°	55050
85°	52930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.3	6.6
10°-20°	735.6	18.1
20°-30°	989.1	24.4
30°-40°	813.3	20.0
40°-50°	499.4	12.3
50°-60°	345.6	8.5
60°-70°	235.7	5.8
70°-80°	131.3	3.2
80°-90°	41.8	1.0
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°	1991.9	49.1
0°-40°	2805.2	69.1
0°-60°	3650.3	89.9
0°-90°	4059.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4059.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2858	
5°	2830	267
15°	2626	736
25°	2175	989
35°	1291	813
45°	631	499
55°	379	346
65°	235	236
75°	123	131
85°	37	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2858.4
2.5°	2838.3
5°	2829.7
7.5°	2798.1
10°	2737.8
12.5°	2683.4
15°	2625.9
17.5°	2542.7
20°	2436.5
22.5°	2310.2
25°	2175.3
27.5°	2011.7
30°	1808.0
32.5°	1558.4
35°	1291.4
37.5°	1061.9
40°	875.2
42.5°	731.8
45°	631.4
47.5°	553.8
50°	490.7
52.5°	433.4
55°	378.8
57.5°	338.6
60°	304.2
62.5°	269.8
65°	235.4
67.5°	206.7
70°	178.0
72.5°	149.3
75°	123.4
77.5°	97.5
80°	77.5
82.5°	57.4
85°	37.4
87.5°	20.1
90°	0.0



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— 0°-180°







(END OF REPORT)