

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: P581166

Luminaire Tested: **HC455D010-HM44560835-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581166
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-HM44560835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4660.7 lumens
Efficiency: N/A
Efficacy: 89.6 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

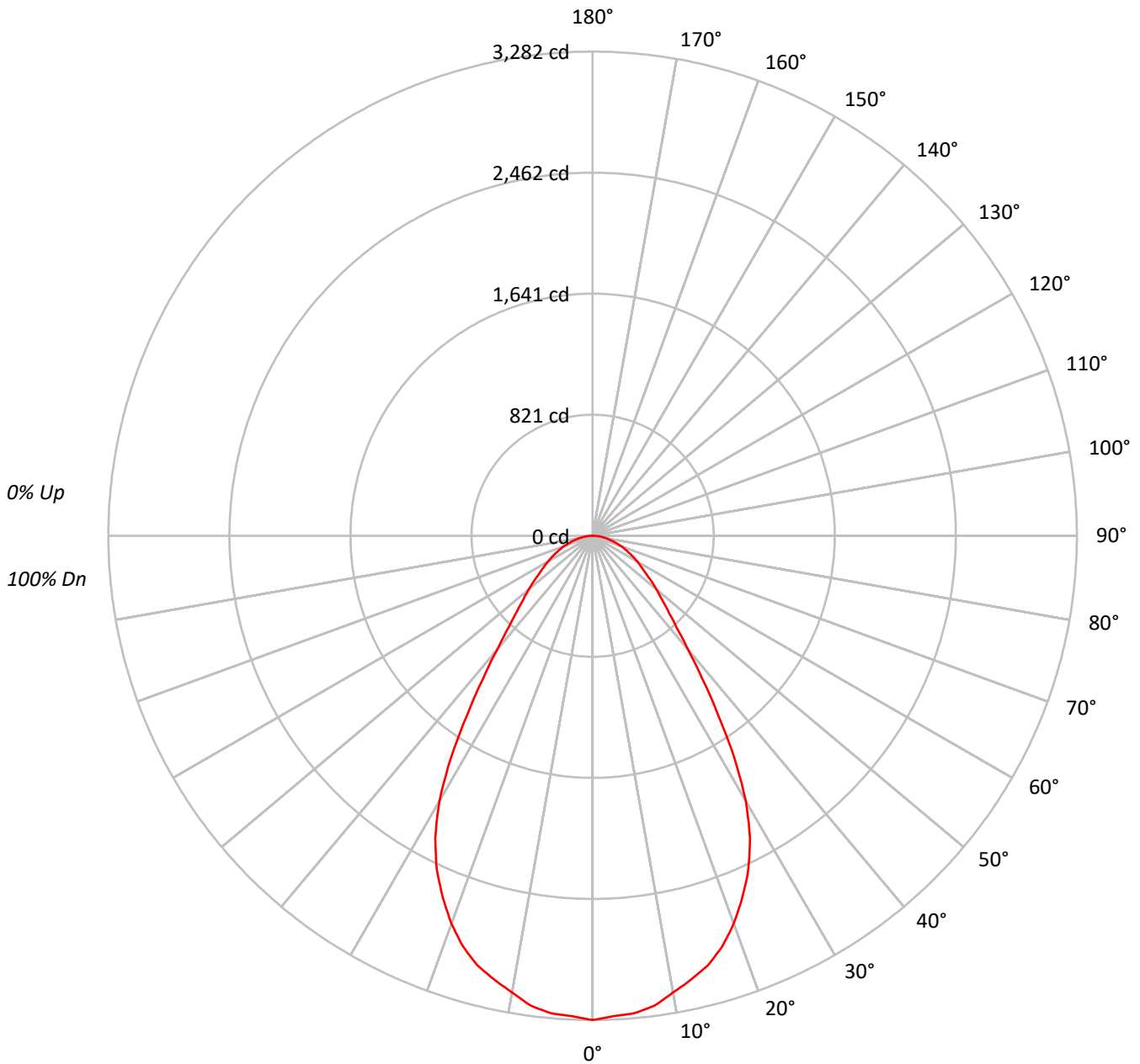
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	404833
5°	402293
10°	393743
15°	385019
20°	367218
25°	339929
30°	295679
35°	223291
40°	161837
45°	126449
50°	108131
55°	93524
60°	86169
65°	78861
70°	73678
75°	67578
80°	63218
85°	60713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	6.6
10°-20°	844.6	18.1
20°-30°	1135.7	24.4
30°-40°	933.9	20.0
40°-50°	573.5	12.3
50°-60°	396.9	8.5
60°-70°	270.6	5.8
70°-80°	150.8	3.2
80°-90°	48.0	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°	2287.1	49.1
0°-40°	3221.0	69.1
0°-60°	4191.4	89.9
0°-90°	4660.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4660.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3282	
5°	3249	307
15°	3015	845
25°	2498	1136
35°	1483	934
45°	725	573
55°	435	397
65°	270	271
75°	142	151
85°	43	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3282.1
2.5°	3259.0
5°	3249.1
7.5°	3212.9
10°	3143.7
12.5°	3081.0
15°	3015.1
17.5°	2919.6
20°	2797.6
22.5°	2652.6
25°	2497.7
27.5°	2310.0
30°	2076.0
32.5°	1789.3
35°	1482.9
37.5°	1219.3
40°	1005.1
42.5°	840.3
45°	724.9
47.5°	636.0
50°	563.5
52.5°	497.6
55°	434.9
57.5°	388.8
60°	349.3
62.5°	309.7
65°	270.2
67.5°	237.3
70°	204.3
72.5°	171.3
75°	141.8
77.5°	112.0
80°	89.0
82.5°	65.9
85°	42.9
87.5°	23.1
90°	0.0



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— 0°-180°







(END OF REPORT)