

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: P581430

Luminaire Tested: **HC4R07D010-HM40525830-42RMDC**

Issue Date: 9/23/2021

Test Information

Test Method: LM-41-14
Report Number: P581430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/23/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC4R07D010-HM40525830-42RMDC
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 886.9 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

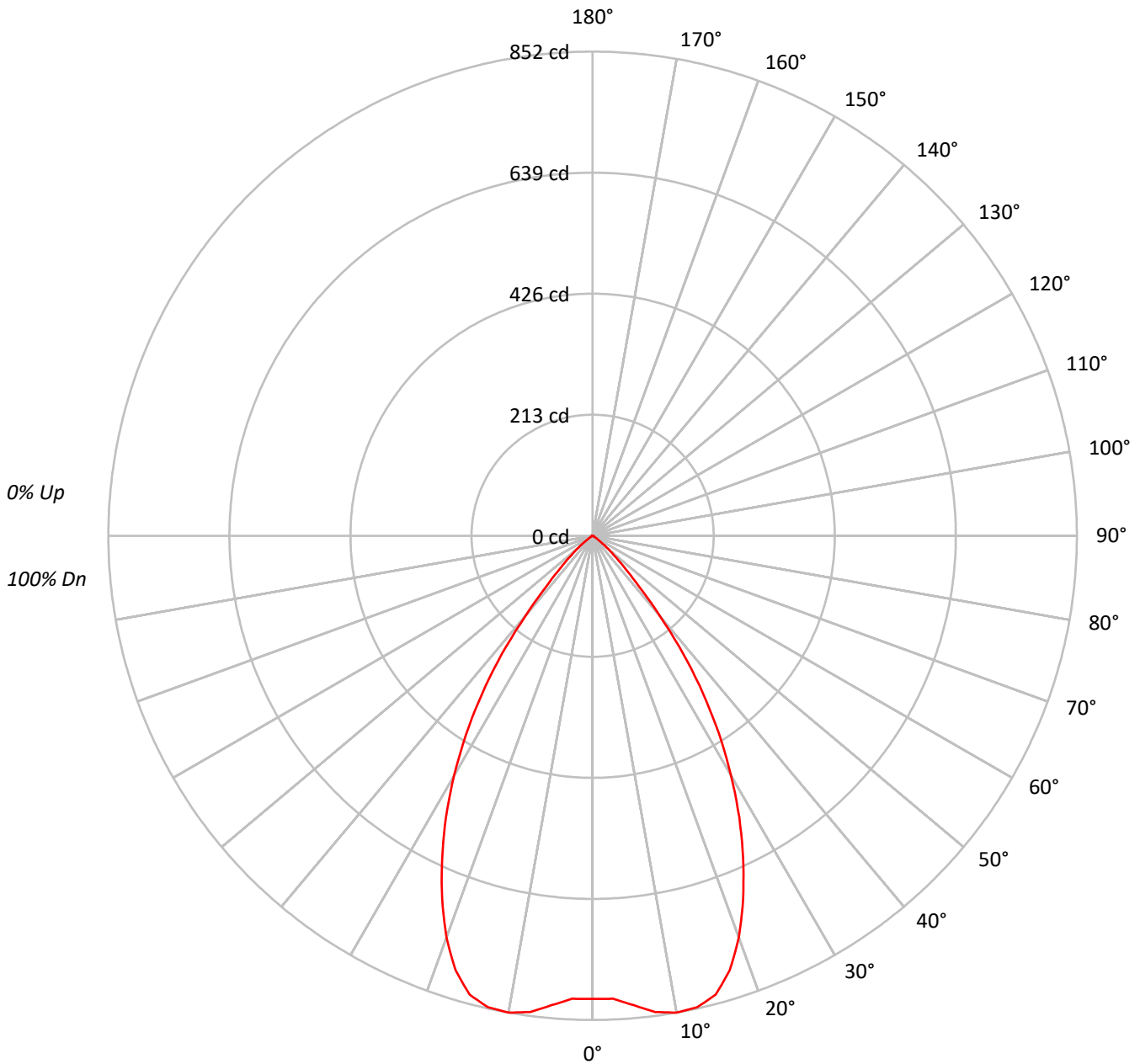
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			74
5	92	83	77	73	90	82	76	72	80	75	72	78	74	71	77	73	70	69			69
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60			60
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56			56
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52			52
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49			49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100502
5°	102656
10°	106712
15°	106755
20°	98709
25°	85292
30°	69391
35°	50985
40°	29466
45°	13763
50°	6352
55°	2193
60°	691
65°	496
70°	397
75°	286
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	9.0
10°-20°	231.7	26.1
20°-30°	285.3	32.2
30°-40°	208.3	23.5
40°-50°	67.9	7.7
50°-60°	11.3	1.3
60°-70°	1.7	0.2
70°-80°	0.6	0.1
80°-90°	0.0	0.0
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°	597.0	67.3
0°-40°	805.3	90.8
0°-60°	884.5	99.7
0°-90°	886.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	815	
5°	829	80
15°	836	232
25°	627	285
35°	339	208
45°	79	68
55°	10	11
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	814.8
2.5°	815.4
5°	829.1
7.5°	845.2
10°	852.0
12.5°	849.7
15°	836.0
17.5°	801.7
20°	752.0
22.5°	691.9
25°	626.7
27.5°	558.6
30°	487.2
32.5°	414.0
35°	338.6
37.5°	262.4
40°	183.0
42.5°	119.5
45°	78.9
47.5°	52.0
50°	33.1
52.5°	19.5
55°	10.2
57.5°	4.0
60°	2.8
62.5°	2.3
65°	1.7
67.5°	1.1
70°	1.1
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)