

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: P581484

Luminaire Tested: **HC4R07D010-HM40525927-42RMDC**

Issue Date: 9/23/2021

Test Information

Test Method: LM-41-14
Report Number: P581484
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-HM40525927-42RMDC
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 700.7 lumens
Efficiency: N/A
Efficacy: 87.6 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

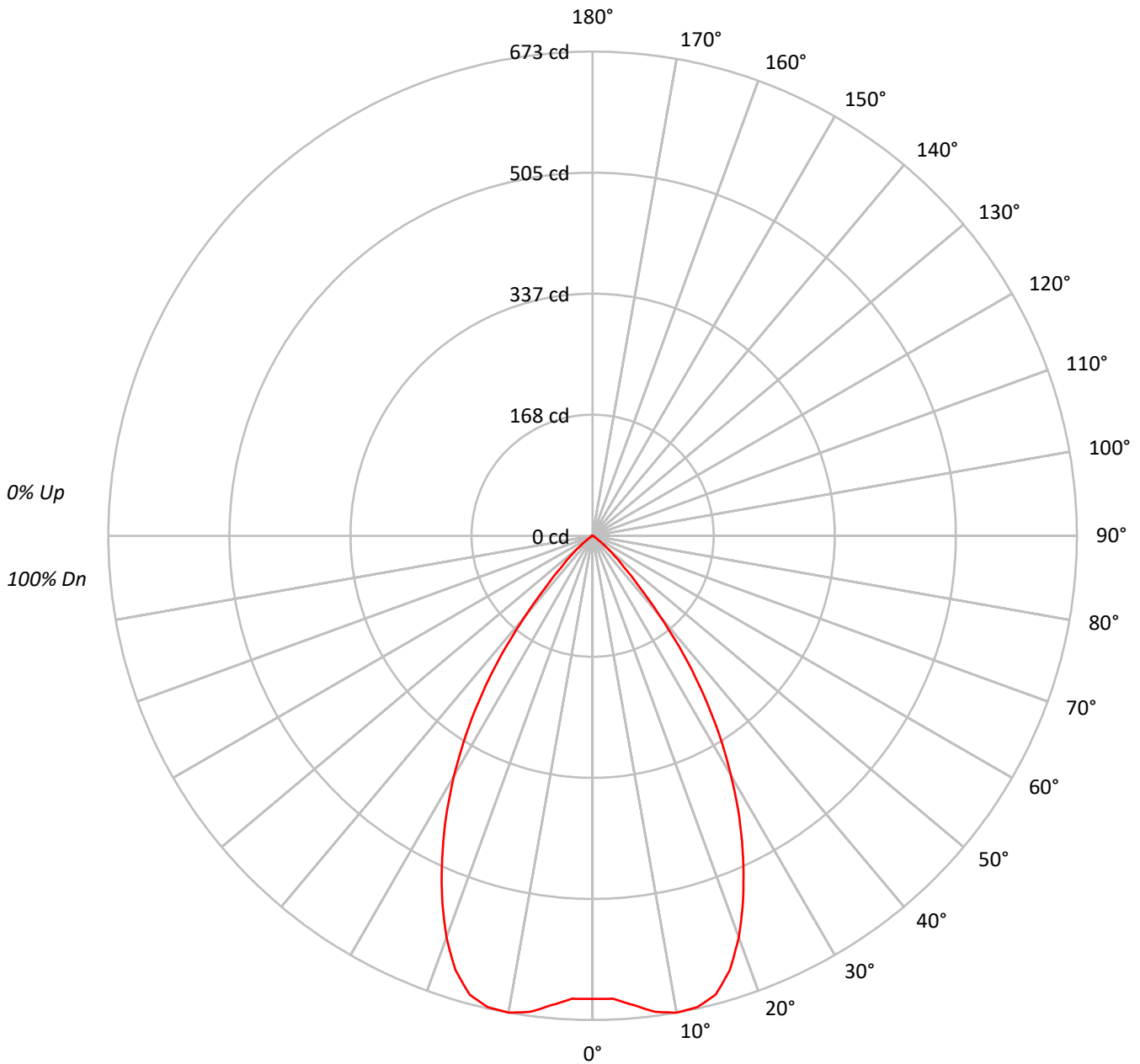
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																											
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																											
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																											
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74																											
5	92	83	77	73	90	82	76	72	80	75	72	78	74	71	77	73	70	69																											
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64																											
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60																											
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56																											
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52																											
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79398
5°	81088
10°	84292
15°	84331
20°	77956
25°	67368
30°	54820
35°	40264
40°	23267
45°	10885
50°	5028
55°	1742
60°	567
65°	409
70°	325
75°	238
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	9.0
10°-20°	183.0	26.1
20°-30°	225.4	32.2
30°-40°	164.6	23.5
40°-50°	53.7	7.7
50°-60°	9.0	1.3
60°-70°	1.4	0.2
70°-80°	0.5	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°	471.6	67.3
0°-40°	636.1	90.8
0°-60°	698.8	99.7
0°-90°	700.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	644	
5°	655	63
15°	660	183
25°	495	225
35°	267	165
45°	62	54
55°	8	9
65°	1	1
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	643.7
2.5°	644.1
5°	654.9
7.5°	667.6
10°	673.0
12.5°	671.2
15°	660.4
17.5°	633.3
20°	593.9
22.5°	546.6
25°	495.0
27.5°	441.3
30°	384.9
32.5°	327.1
35°	267.4
37.5°	207.3
40°	144.5
42.5°	94.5
45°	62.4
47.5°	41.1
50°	26.2
52.5°	15.4
55°	8.1
57.5°	3.2
60°	2.3
62.5°	1.8
65°	1.4
67.5°	0.9
70°	0.9
72.5°	0.5
75°	0.5
77.5°	0.5
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)