

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: P580314

Luminaire Tested: **HC4R30D010-HM43040840-42RMDC**

Issue Date: 9/23/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580314  
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: HC4R30D010-HM43040840-42RMDC  
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3193.3 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

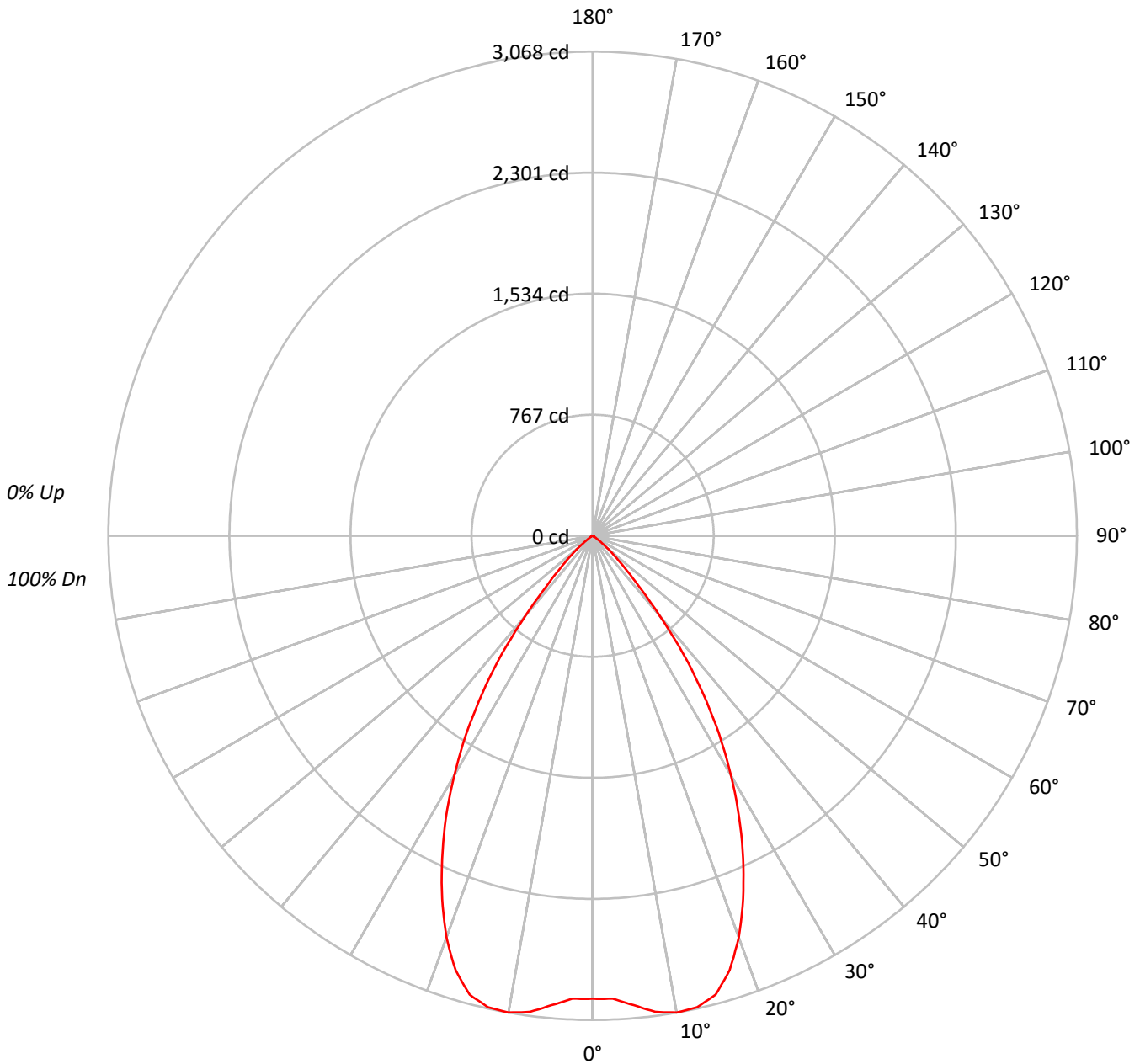
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	361859
5°	369630
10°	384212
15°	384367
20°	355365
25°	307103
30°	249817
35°	183524
40°	106078
45°	49558
50°	22931
55°	7978
60°	2541
65°	1810
70°	1515
75°	953
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.0	9.0
10°-20°	834.2	26.1
20°-30°	1027.3	32.2
30°-40°	750.0	23.5
40°-50°	244.5	7.7
50°-60°	40.9	1.3
60°-70°	6.4	0.2
70°-80°	2.1	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°	2149.5	67.3
0°-40°	2899.4	90.8
0°-60°	3184.8	99.7
0°-90°	3193.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3193.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2934	
5°	2985	288
15°	3010	834
25°	2256	1027
35°	1219	750
45°	284	244
55°	37	41
65°	6	6
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2933.7
2.5°	2935.8
5°	2985.3
7.5°	3042.9
10°	3067.6
12.5°	3059.4
15°	3010.0
17.5°	2886.3
20°	2707.3
22.5°	2491.1
25°	2256.5
27.5°	2011.4
30°	1754.0
32.5°	1490.5
35°	1218.8
37.5°	944.9
40°	658.8
42.5°	430.3
45°	284.1
47.5°	187.4
50°	119.5
52.5°	70.0
55°	37.1
57.5°	14.4
60°	10.3
62.5°	8.2
65°	6.2
67.5°	4.2
70°	4.2
72.5°	2.0
75°	2.0
77.5°	2.0
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)