

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: P592625

Luminaire Tested: **HC4R15D010-HM40525850-42RMDC**

Issue Date: 9/23/2021

Test Information

Test Method: LM-41-14
Report Number: P592625
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: HC4R15D010-HM40525850-42RMDC
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1591.1 lumens
Efficiency: N/A
Efficacy: 113.6 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

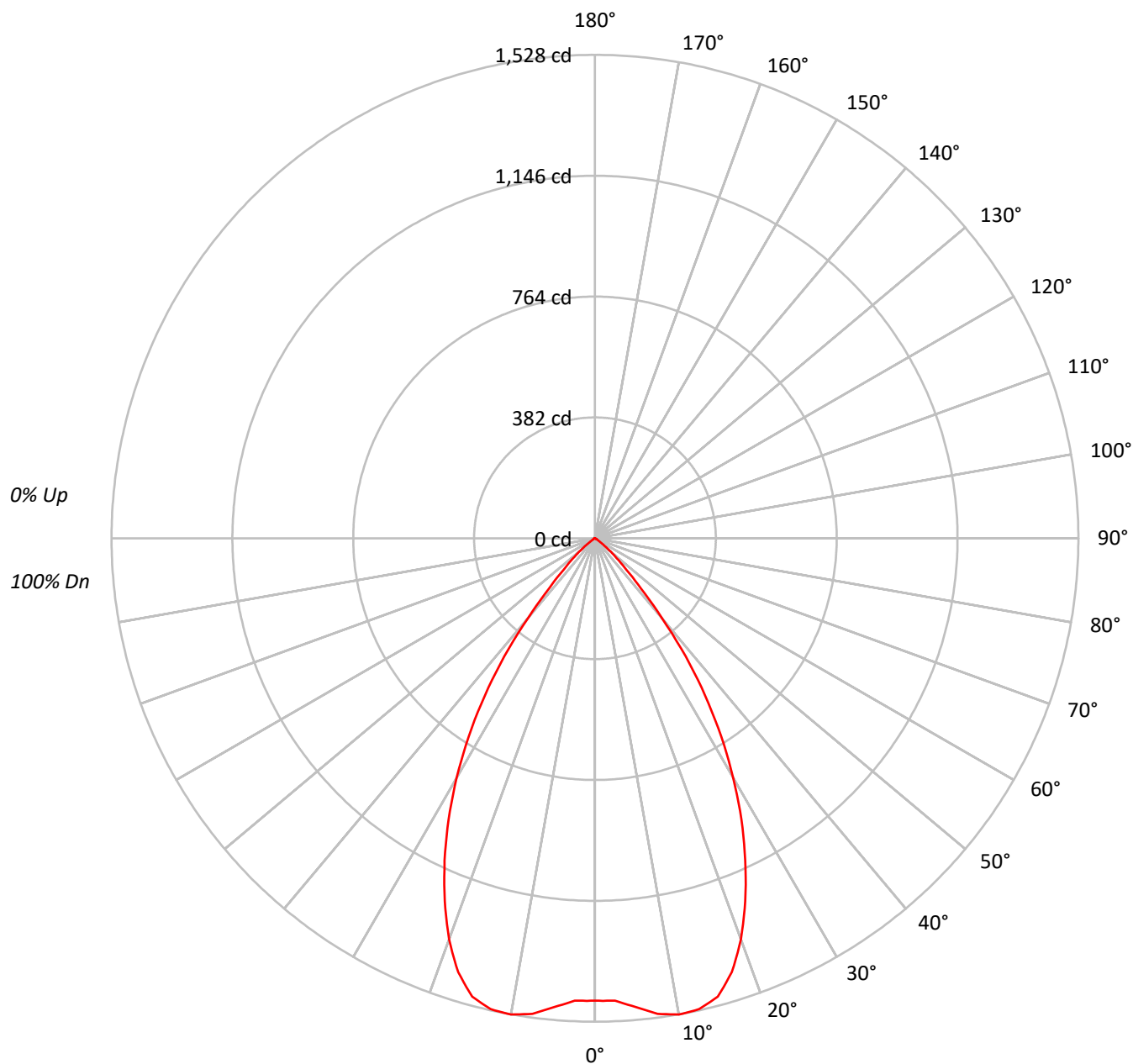
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87
4	97	89	83	79	95	88	82	78	86	81	77		84	80	77		82
5	92	83	77	73	90	82	76	72	80	75	72		78	74	71		77
6	87	78	71	67	85	77	71	67	75	70	66		74	69	66		72
7	82	73	66	62	81	72	66	62	71	65	62		69	65	61		68
8	78	68	62	58	77	68	62	58	67	61	57		65	61	57		65
9	74	64	58	54	73	64	58	54	63	57	54		62	57	54		61
10	70	61	55	51	69	60	54	51	59	54	50		58	54	50		58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	180307
5°	184165
10°	191442
15°	191520
20°	177059
25°	153014
30°	124481
35°	91446
40°	52862
45°	24700
50°	11418
55°	3957
60°	1258
65°	905
70°	721
75°	477
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	9.0
10°-20°	415.6	26.1
20°-30°	511.9	32.2
30°-40°	373.7	23.5
40°-50°	121.8	7.7
50°-60°	20.3	1.3
60°-70°	3.1	0.2
70°-80°	1.1	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°	1071.0	67.3
0°-40°	1444.7	90.8
0°-60°	1586.9	99.7
0°-90°	1591.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1462	
5°	1487	143
15°	1500	416
25°	1124	512
35°	607	374
45°	142	122
55°	18	20
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1461.8
2.5°	1462.9
5°	1487.4
7.5°	1516.2
10°	1528.5
12.5°	1524.4
15°	1499.8
17.5°	1438.2
20°	1348.9
22.5°	1241.3
25°	1124.3
27.5°	1002.3
30°	874.0
32.5°	742.7
35°	607.3
37.5°	470.8
40°	328.3
42.5°	214.4
45°	141.6
47.5°	93.3
50°	59.5
52.5°	34.9
55°	18.4
57.5°	7.2
60°	5.1
62.5°	4.1
65°	3.1
67.5°	2.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
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)