

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: P580152

Luminaire Tested: **HC4R25D010-HM40525835-42RMDC**

Issue Date: 9/23/2021

Test Information

Test Method: LM-41-14
Report Number: P580152
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: HC4R25D010-HM40525835-42RMDC
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2570.7 lumens
Efficiency: N/A
Efficacy: 95.9 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

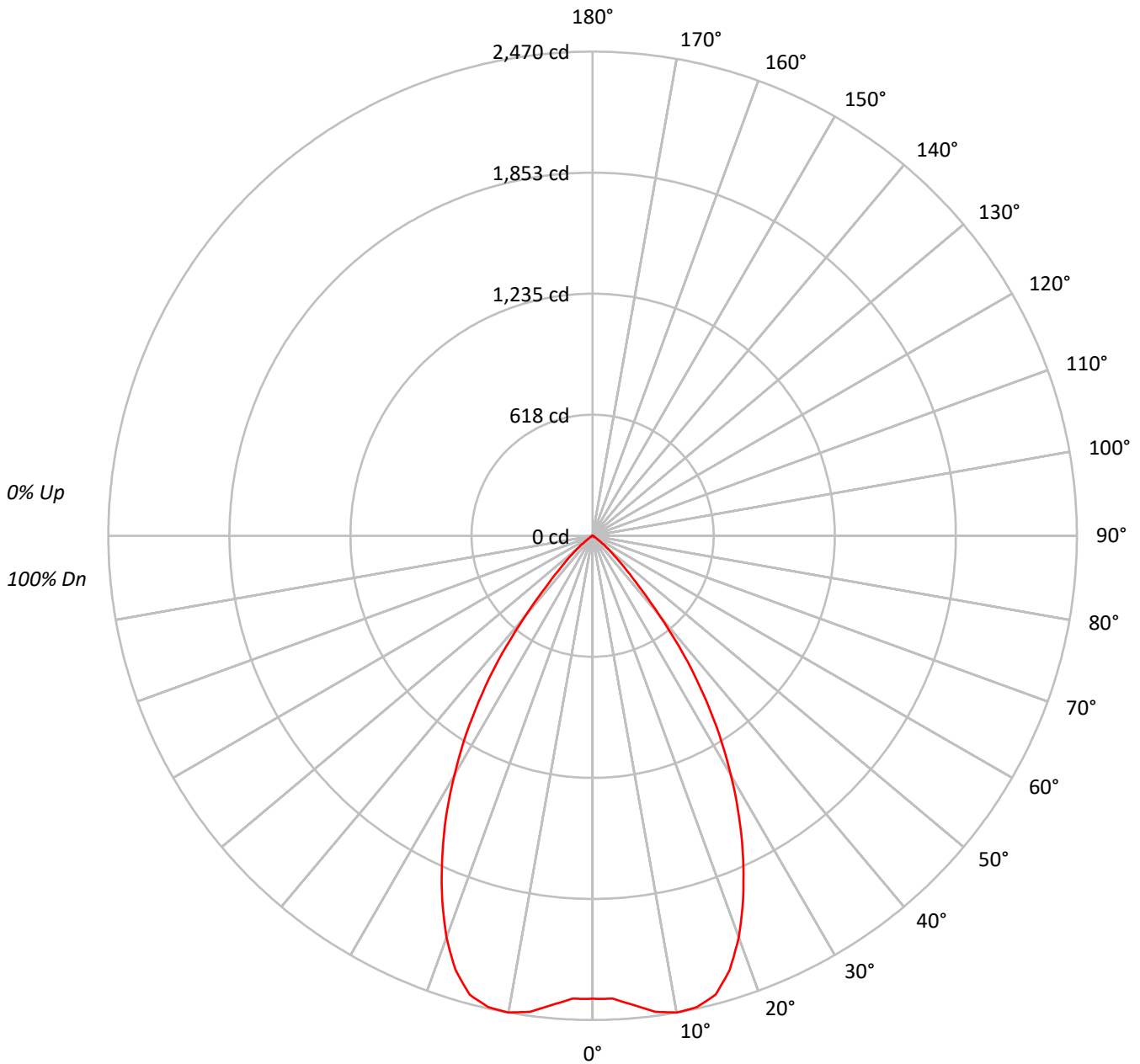
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580152

CATALOG NUMBER: HC4R25D010-HM40525835-42RMDC

Luminous Intensity Polar Plot





TEST NUMBER: P580152

CATALOG NUMBER: HC4R25D010-HM40525835-42RMDC

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	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°	291318
5°	297557
10°	309314
15°	309435
20°	286085
25°	247234
30°	201136
35°	147746
40°	85403
45°	39894
50°	18441
55°	6408
60°	2023
65°	1459
70°	1190
75°	810
80°	0
85°	0



TEST NUMBER: P580152

CATALOG NUMBER: HC4R25D010-HM40525835-42RMDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	9.0
10°-20°	671.6	26.1
20°-30°	827.0	32.2
30°-40°	603.8	23.5
40°-50°	196.8	7.7
50°-60°	32.8	1.3
60°-70°	5.1	0.2
70°-80°	1.8	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°	1730.4	67.3
0°-40°	2334.2	90.8
0°-60°	2563.8	99.7
0°-90°	2570.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2570.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2362	
5°	2403	232
15°	2423	672
25°	1817	827
35°	981	604
45°	229	197
55°	30	33
65°	5	5
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P580152

CATALOG NUMBER: HC4R25D010-HM40525835-42RMDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2361.8
2.5°	2363.4
5°	2403.2
7.5°	2449.6
10°	2469.6
12.5°	2462.9
15°	2423.2
17.5°	2323.7
20°	2179.5
22.5°	2005.4
25°	1816.6
27.5°	1619.3
30°	1412.2
32.5°	1200.0
35°	981.2
37.5°	760.7
40°	530.4
42.5°	346.4
45°	228.7
47.5°	150.8
50°	96.1
52.5°	56.3
55°	29.8
57.5°	11.6
60°	8.2
62.5°	6.7
65°	5.0
67.5°	3.3
70°	3.3
72.5°	1.7
75°	1.7
77.5°	1.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)