

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P592539

Luminaire Tested: **HCC4S05D010MB-HM40525850-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S05D010MB-HM40525850-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

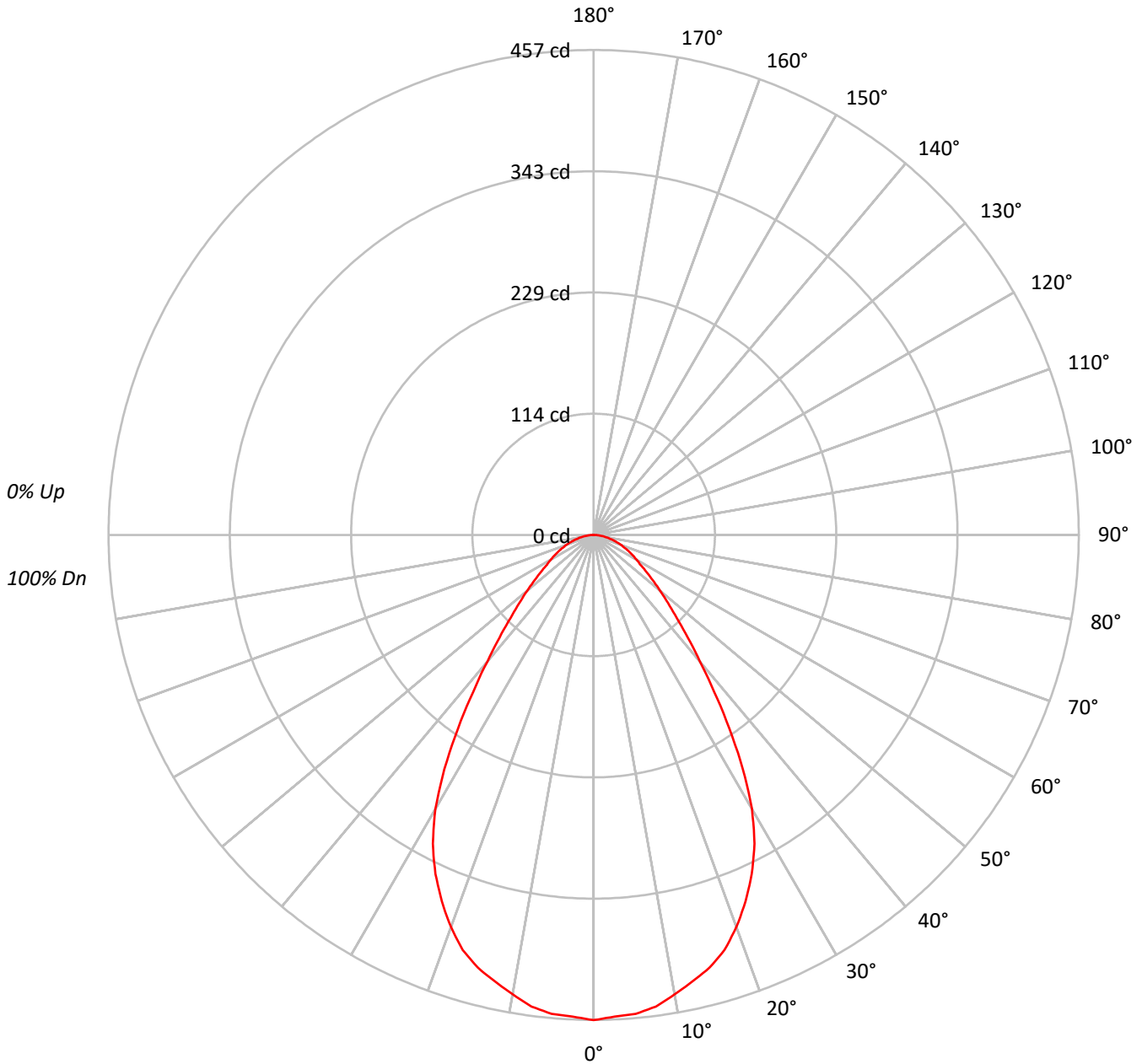
Lumens per Lamp: N/A
Luminaire Lumens: 665.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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: P592539
CATALOG NUMBER: HCC4S05D010MB-HM40525850-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P592539

CATALOG NUMBER: HCC4S05D010MB-HM40525850-41MDW

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56394
5°	56089
10°	55059
15°	53901
20°	51599
25°	47974
30°	42472
35°	33518
40°	25070
45°	19275
50°	15658
55°	12989
60°	11471
65°	10624
70°	9809
75°	8960
80°	8240
85°	6652



TEST NUMBER: P592539
 CATALOG NUMBER: HCC4S05D010MB-HM40525850-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	6.4
10°-20°	118.4	17.8
20°-30°	160.7	24.2
30°-40°	139.2	20.9
40°-50°	87.4	13.1
50°-60°	55.0	8.3
60°-70°	36.1	5.4
70°-80°	19.9	3.0
80°-90°	5.5	0.8
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°	321.9	48.4
0°-40°	461.2	69.3
0°-60°	603.5	90.8
0°-90°	665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	457	
5°	453	43
15°	422	118
25°	352	161
35°	223	139
45°	110	87
55°	60	55
65°	36	36
75°	19	20
85°	5	5
90°	0	



TEST NUMBER: P592539
CATALOG NUMBER: HCC4S05D010MB-HM40525850-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	457.2
2.5°	454.3
5°	453.0
7.5°	448.3
10°	439.6
12.5°	430.8
15°	422.1
17.5°	410.1
20°	393.1
22.5°	373.8
25°	352.5
27.5°	328.1
30°	298.2
32.5°	261.7
35°	222.6
37.5°	186.6
40°	155.7
42.5°	131.3
45°	110.5
47.5°	94.9
50°	81.6
52.5°	70.0
55°	60.4
57.5°	52.1
60°	46.5
62.5°	41.4
65°	36.4
67.5°	31.3
70°	27.2
72.5°	22.6
75°	18.8
77.5°	14.8
80°	11.6
82.5°	7.8
85°	4.7
87.5°	1.8
90°	0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)