

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: P581454

Luminaire Tested: **HCC4S07D010MB-HM40525835-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010MB-HM40525835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

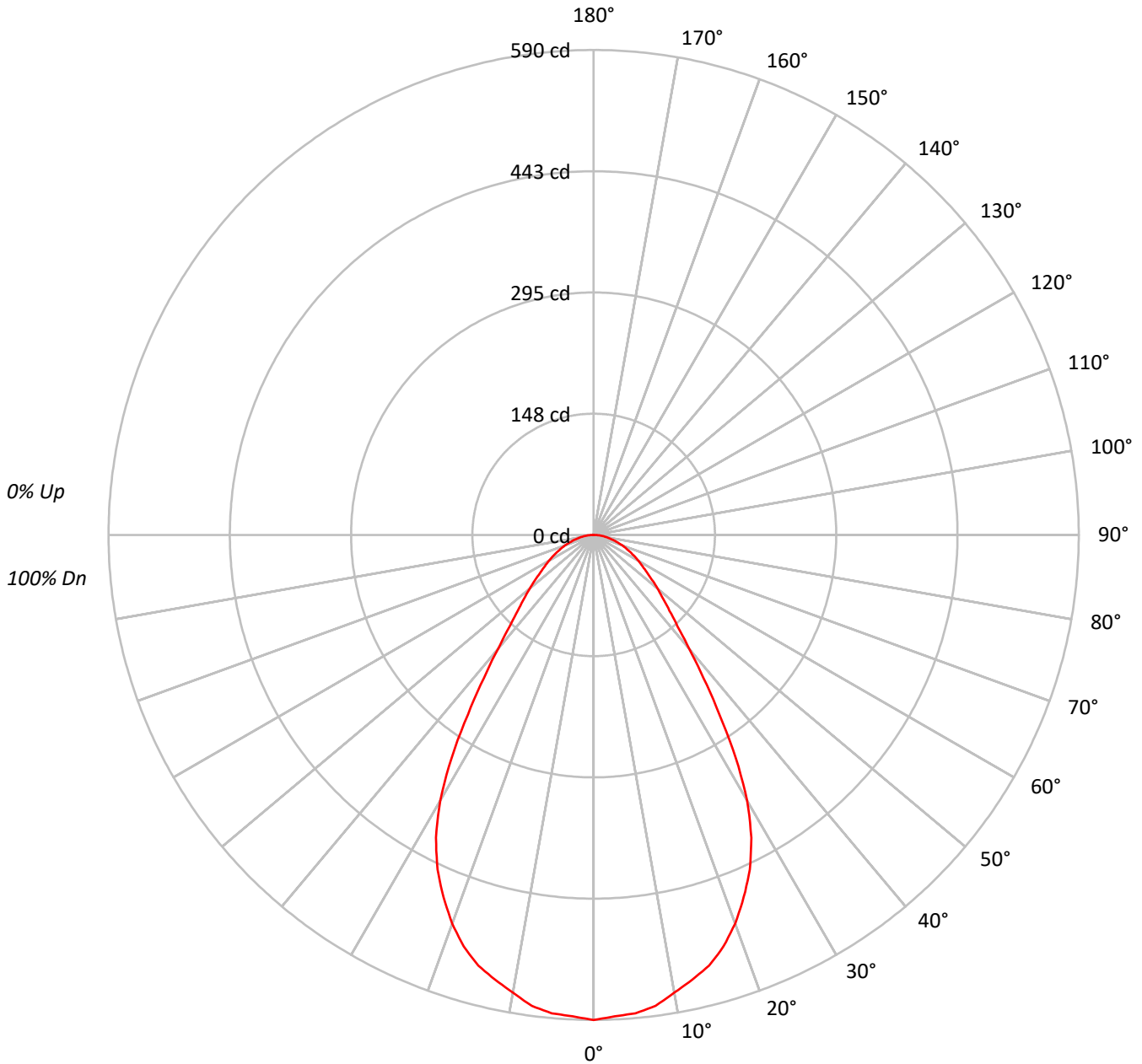
Lumens per Lamp: N/A
Luminaire Lumens: 838.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P581454
CATALOG NUMBER: HCC4S07D010MB-HM40525835-41PSMDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P581454

CATALOG NUMBER: HCC4S07D010MB-HM40525835-41PSMDW

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72799
5°	72334
10°	70815
15°	69250
20°	66038
25°	61135
30°	53182
35°	40144
40°	29096
45°	22747
50°	19439
55°	16817
60°	15492
65°	14184
70°	13271
75°	12153
80°	11365
85°	10897



TEST NUMBER: P581454
 CATALOG NUMBER: HCC4S07D010MB-HM40525835-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	6.6
10°-20°	151.9	18.1
20°-30°	204.2	24.4
30°-40°	167.9	20.0
40°-50°	103.1	12.3
50°-60°	71.3	8.5
60°-70°	48.6	5.8
70°-80°	27.1	3.2
80°-90°	8.6	1.0
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°	411.3	49.1
0°-40°	579.3	69.1
0°-60°	753.7	89.9
0°-90°	838.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	590	
5°	584	55
15°	542	152
25°	449	204
35°	267	168
45°	130	103
55°	78	71
65°	49	49
75°	26	27
85°	8	9
90°	0	



TEST NUMBER: P581454
CATALOG NUMBER: HCC4S07D010MB-HM40525835-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	590.2
2.5°	586.1
5°	584.2
7.5°	577.8
10°	565.4
12.5°	554.1
15°	542.3
17.5°	525.1
20°	503.1
22.5°	477.0
25°	449.2
27.5°	415.4
30°	373.4
32.5°	321.8
35°	266.6
37.5°	219.3
40°	180.7
42.5°	151.1
45°	130.4
47.5°	114.4
50°	101.3
52.5°	89.4
55°	78.2
57.5°	69.9
60°	62.8
62.5°	55.6
65°	48.6
67.5°	42.7
70°	36.8
72.5°	30.8
75°	25.5
77.5°	20.1
80°	16.0
82.5°	11.8
85°	7.7
87.5°	4.1
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)