

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: P581418

Luminaire Tested: **HCC4S07D010SL-HM40525827-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581418
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: HCC4S07D010SL-HM40525827-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

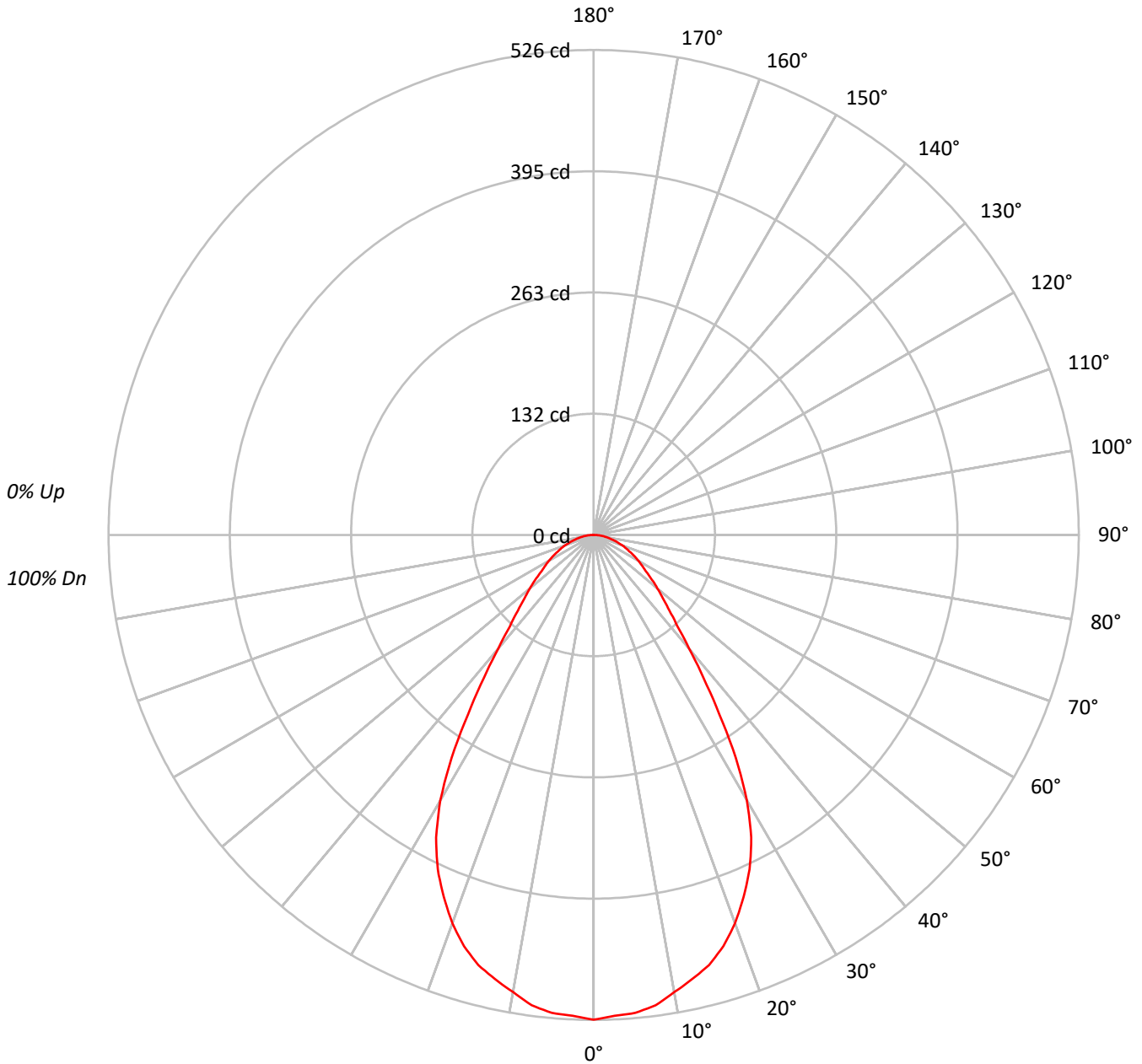
Lumens per Lamp: N/A
Luminaire Lumens: 746.4 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581418
CATALOG NUMBER: HCC4S07D010SL-HM40525827-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P581418

CATALOG NUMBER: HCC4S07D010SL-HM40525827-41PSMDW

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°	64855
5°	64434
10°	63075
15°	61678
20°	58818
25°	54452
30°	47357
35°	35762
40°	25924
45°	20252
50°	17309
55°	14967
60°	13815
65°	12608
70°	11829
75°	10771
80°	10087
85°	9624



TEST NUMBER: P581418
 CATALOG NUMBER: HCC4S07D010SL-HM40525827-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	6.6
10°-20°	135.3	18.1
20°-30°	181.9	24.4
30°-40°	149.6	20.0
40°-50°	91.9	12.3
50°-60°	63.5	8.5
60°-70°	43.3	5.8
70°-80°	24.1	3.2
80°-90°	7.6	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°	366.4	49.1
0°-40°	515.9	69.1
0°-60°	671.3	89.9
0°-90°	746.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	526	
5°	520	49
15°	483	135
25°	400	182
35°	238	150
45°	116	92
55°	70	64
65°	43	43
75°	23	24
85°	7	8
90°	0	



TEST NUMBER: P581418
CATALOG NUMBER: HCC4S07D010SL-HM40525827-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	525.8
2.5°	522.0
5°	520.4
7.5°	514.6
10°	503.6
12.5°	493.6
15°	483.0
17.5°	467.6
20°	448.1
22.5°	424.9
25°	400.1
27.5°	370.0
30°	332.5
32.5°	286.7
35°	237.5
37.5°	195.3
40°	161.0
42.5°	134.6
45°	116.1
47.5°	101.9
50°	90.2
52.5°	79.7
55°	69.6
57.5°	62.2
60°	56.0
62.5°	49.6
65°	43.2
67.5°	38.0
70°	32.8
72.5°	27.4
75°	22.6
77.5°	18.0
80°	14.2
82.5°	10.6
85°	6.8
87.5°	3.6
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)