

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: P592577

Luminaire Tested: **HCC4W07D010BZ-HM40525850-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592577
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: HCC4W07D010BZ-HM40525850-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

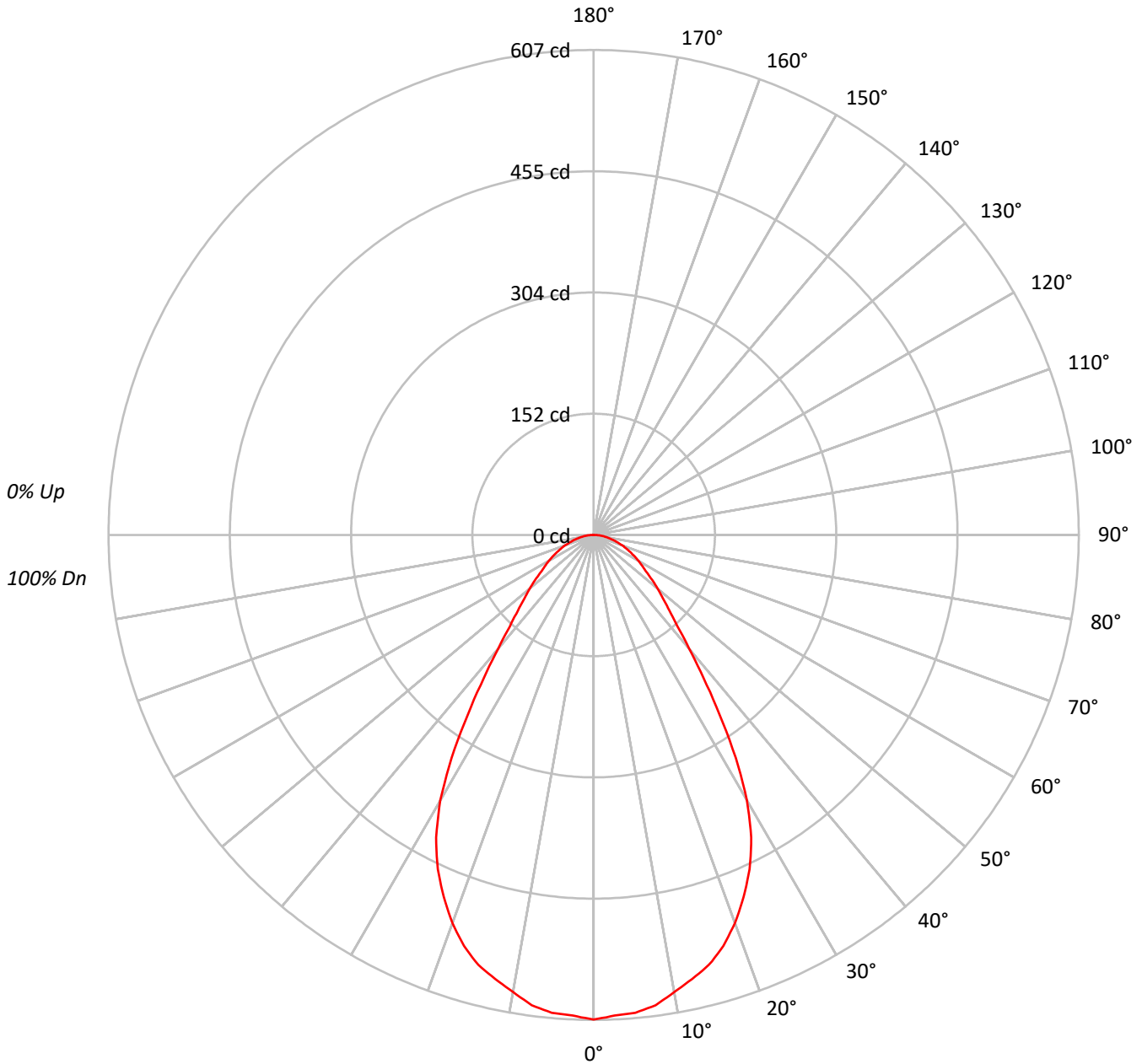
Lumens per Lamp: N/A
Luminaire Lumens: 861.2 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592577
CATALOG NUMBER: HCC4W07D010BZ-HM40525850-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P592577

CATALOG NUMBER: HCC4W07D010BZ-HM40525850-41PSMDW

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°	74821
5°	74340
10°	72757
15°	71153
20°	67862
25°	62822
30°	54635
35°	41258
40°	29901
45°	23357
50°	19976
55°	17268
60°	15912
65°	14593
70°	13632
75°	12486
80°	11649
85°	11322



TEST NUMBER: P592577
 CATALOG NUMBER: HCC4W07D010BZ-HM40525850-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	6.6
10°-20°	156.1	18.1
20°-30°	209.9	24.4
30°-40°	172.6	20.0
40°-50°	106.0	12.3
50°-60°	73.3	8.5
60°-70°	50.0	5.8
70°-80°	27.8	3.2
80°-90°	8.9	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°	422.7	49.1
0°-40°	595.2	69.1
0°-60°	774.5	89.9
0°-90°	861.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	607	
5°	600	57
15°	557	156
25°	462	210
35°	274	173
45°	134	106
55°	80	73
65°	50	50
75°	26	28
85°	8	9
90°	0	



TEST NUMBER: P592577
CATALOG NUMBER: HCC4W07D010BZ-HM40525850-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	606.6
2.5°	602.2
5°	600.4
7.5°	593.7
10°	580.9
12.5°	569.3
15°	557.2
17.5°	539.5
20°	517.0
22.5°	490.3
25°	461.6
27.5°	426.9
30°	383.6
32.5°	330.7
35°	274.0
37.5°	225.3
40°	185.7
42.5°	155.3
45°	133.9
47.5°	117.6
50°	104.1
52.5°	92.0
55°	80.3
57.5°	71.8
60°	64.5
62.5°	57.2
65°	50.0
67.5°	43.8
70°	37.8
72.5°	31.6
75°	26.2
77.5°	20.7
80°	16.4
82.5°	12.2
85°	8.0
87.5°	4.2
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)