

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: P581489

Luminaire Tested: **HCC4W07D010BZ-HM40525927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W07D010BZ-HM40525927-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

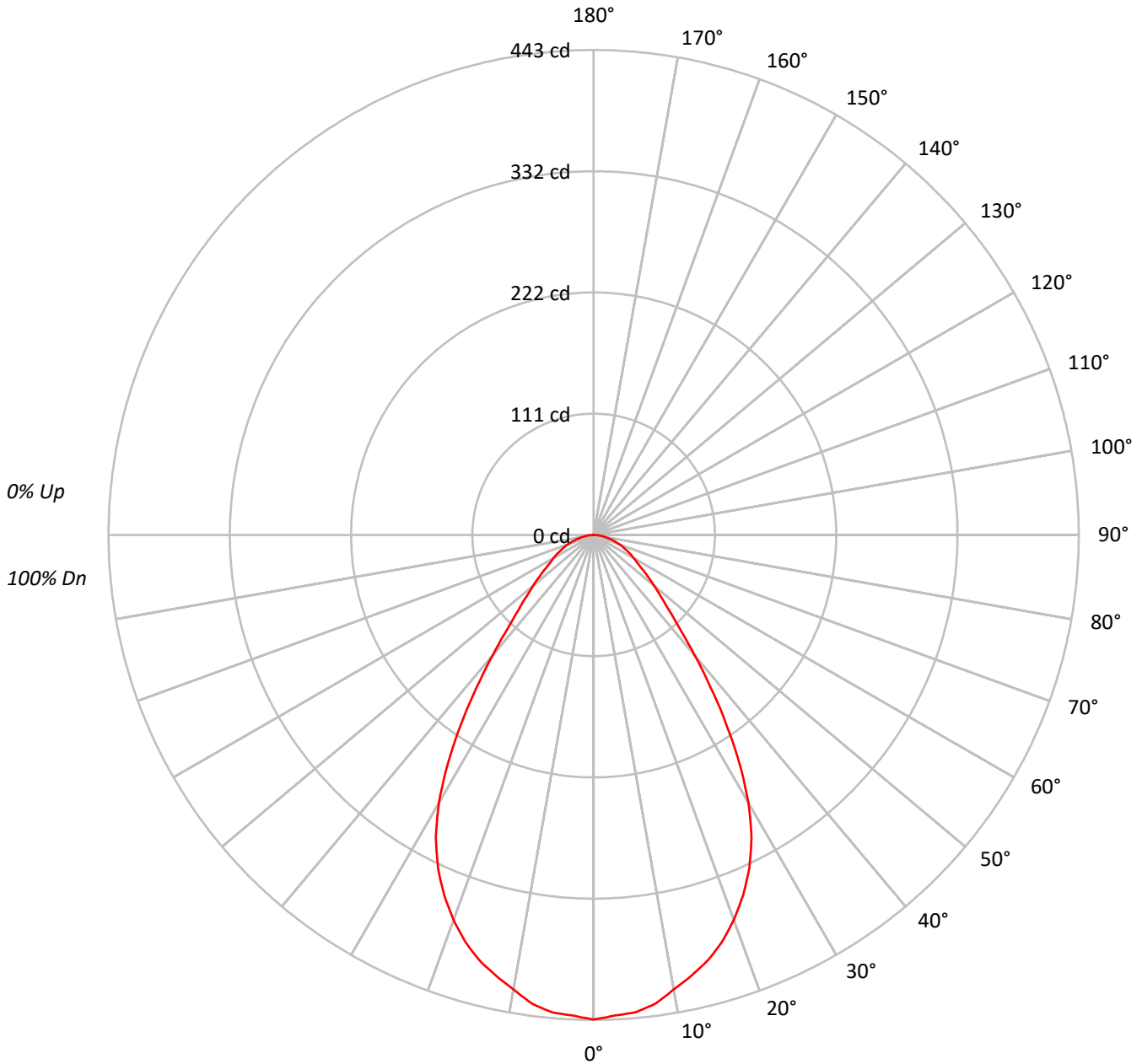
Lumens per Lamp: N/A
Luminaire Lumens: 621.6 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581489
CATALOG NUMBER: HCC4W07D010BZ-HM40525927-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P581489
 CATALOG NUMBER: HCC4W07D010BZ-HM40525927-41NDW

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54605
5°	54195
10°	52792
15°	51398
20°	49105
25°	45742
30°	40278
35°	31772
40°	23058
45°	16938
50°	13778
55°	11548
60°	10460
65°	9631
70°	8944
75°	8197
80°	7387
85°	6510



TEST NUMBER: P581489
 CATALOG NUMBER: HCC4W07D010BZ-HM40525927-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	6.6
10°-20°	112.9	18.2
20°-30°	153.0	24.6
30°-40°	131.3	21.1
40°-50°	77.5	12.5
50°-60°	49.1	7.9
60°-70°	33.0	5.3
70°-80°	18.2	2.9
80°-90°	5.1	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°	307.2	49.4
0°-40°	438.6	70.6
0°-60°	565.2	90.9
0°-90°	621.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	443	
5°	438	41
15°	402	113
25°	336	153
35°	211	131
45°	97	78
55°	54	49
65°	33	33
75°	17	18
85°	5	5
90°	0	



TEST NUMBER: P581489
CATALOG NUMBER: HCC4W07D010BZ-HM40525927-41NDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	442.7
2.5°	439.5
5°	437.7
7.5°	431.9
10°	421.5
12.5°	412.4
15°	402.5
17.5°	389.9
20°	374.1
22.5°	356.4
25°	336.1
27.5°	312.2
30°	282.8
32.5°	248.0
35°	211.0
37.5°	175.3
40°	143.2
42.5°	116.5
45°	97.1
47.5°	83.1
50°	71.8
52.5°	62.4
55°	53.7
57.5°	47.0
60°	42.4
62.5°	37.9
65°	33.0
67.5°	28.9
70°	24.8
72.5°	20.8
75°	17.2
77.5°	13.5
80°	10.4
82.5°	7.3
85°	4.6
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)