

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: P581057

Luminaire Tested: **HCC4S05D010BZ-HM40525927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581057
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: HCC4S05D010BZ-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

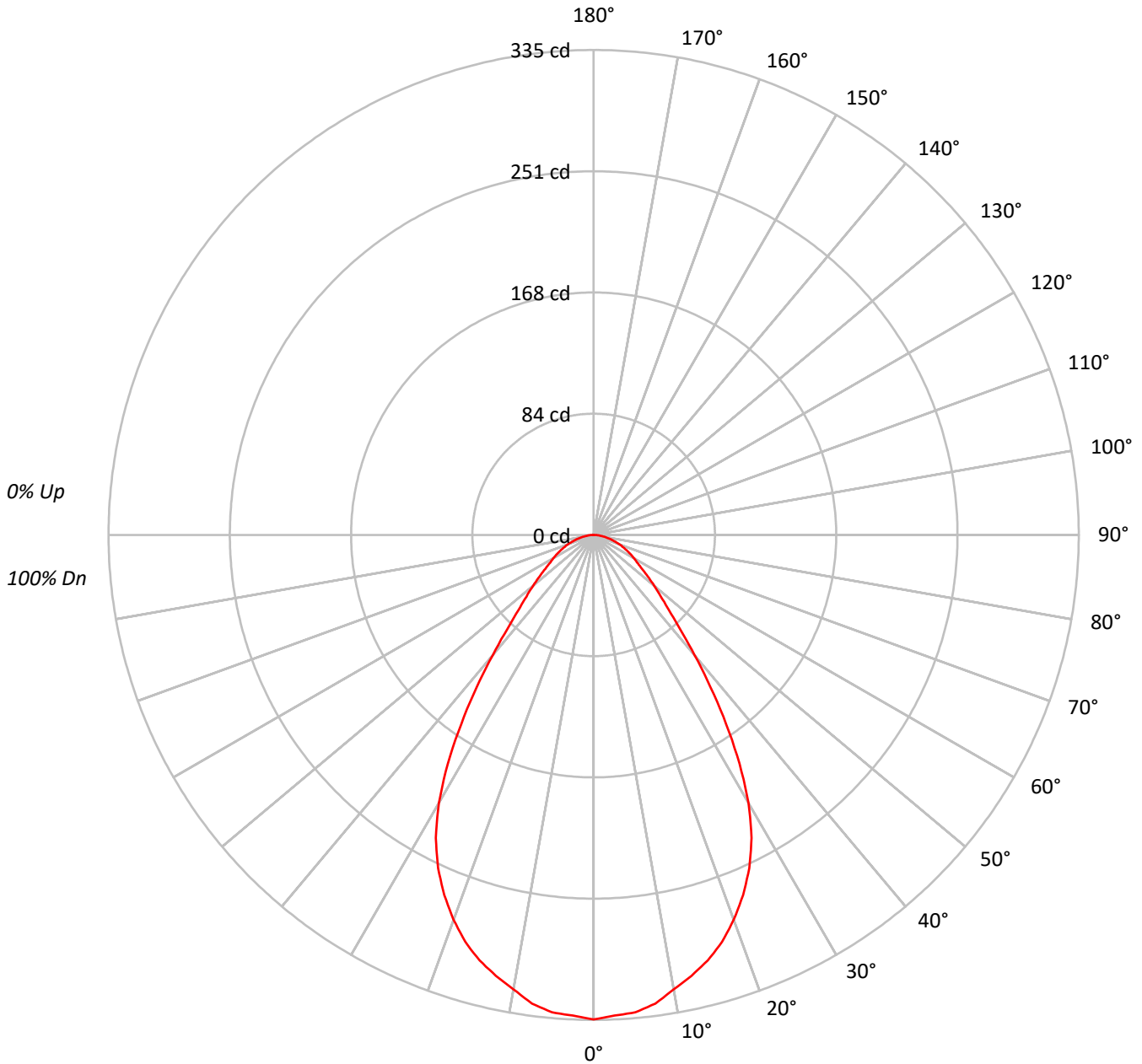
Lumens per Lamp: N/A
Luminaire Lumens: 469.9 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P581057
CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P581057
 CATALOG NUMBER: HCC4S05D010BZ-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°	41284
5°	40983
10°	39917
15°	38858
20°	37121
25°	34582
30°	30451
35°	24017
40°	17438
45°	12804
50°	10439
55°	8731
60°	7919
65°	7297
70°	6780
75°	6148
80°	5540
85°	4812



TEST NUMBER: P581057
 CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	6.6
10°-20°	85.4	18.2
20°-30°	115.7	24.6
30°-40°	99.3	21.1
40°-50°	58.6	12.5
50°-60°	37.1	7.9
60°-70°	25.0	5.3
70°-80°	13.7	2.9
80°-90°	3.8	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°	232.3	49.4
0°-40°	331.6	70.6
0°-60°	427.4	90.9
0°-90°	469.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	335	
5°	331	31
15°	304	85
25°	254	116
35°	160	99
45°	73	59
55°	41	37
65°	25	25
75°	13	14
85°	3	4
90°	0	



TEST NUMBER: P581057
CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41NDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	334.7
2.5°	332.3
5°	331.0
7.5°	326.5
10°	318.7
12.5°	311.9
15°	304.3
17.5°	294.8
20°	282.8
22.5°	269.4
25°	254.1
27.5°	236.1
30°	213.8
32.5°	187.5
35°	159.5
37.5°	132.6
40°	108.3
42.5°	88.1
45°	73.4
47.5°	62.9
50°	54.4
52.5°	47.1
55°	40.6
57.5°	35.5
60°	32.1
62.5°	28.7
65°	25.0
67.5°	21.9
70°	18.8
72.5°	15.7
75°	12.9
77.5°	10.2
80°	7.8
82.5°	5.4
85°	3.4
87.5°	1.4
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)