

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: P593745

Luminaire Tested: **HCC8S40D010BZ-HM82555950-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S40D010BZ-HM82555950-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

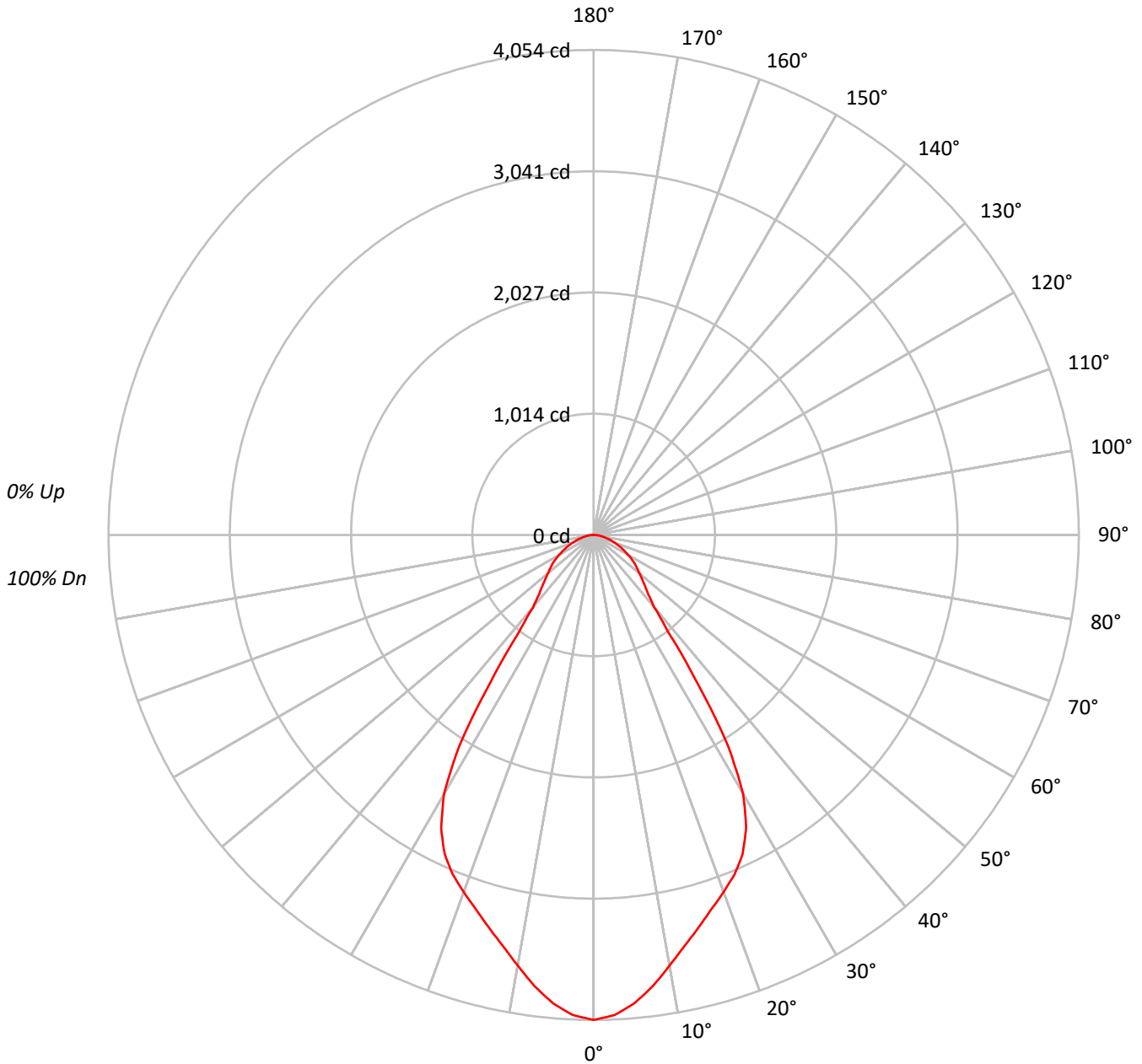
Lumens per Lamp: N/A
Luminaire Lumens: 4888.7 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P593745
CATALOG NUMBER: HCC8S40D010BZ-HM82555950-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P593745
 CATALOG NUMBER: HCC8S40D010BZ-HM82555950-81MDW

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	125007
5°	121600
10°	114427
15°	108338
20°	104215
25°	100191
30°	88981
35°	56670
40°	31624
45°	26488
50°	23914
55°	22537
60°	20562
65°	18548
70°	16373
75°	14547
80°	12892
85°	11676



TEST NUMBER: P593745
 CATALOG NUMBER: HCC8S40D010BZ-HM82555950-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.2	7.5
10°-20°	957.1	19.6
20°-30°	1335.2	27.3
30°-40°	960.7	19.7
40°-50°	476.1	9.7
50°-60°	372.5	7.6
60°-70°	252.2	5.2
70°-80°	130.9	2.7
80°-90°	37.7	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°	2658.5	54.4
0°-40°	3619.2	74.0
0°-60°	4467.8	91.4
0°-90°	4888.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4888.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4054	
5°	3928	366
15°	3394	957
25°	2945	1335
35°	1505	961
45°	607	476
55°	419	372
65°	254	252
75°	122	131
85°	33	38
90°	0	



TEST NUMBER: P593745
CATALOG NUMBER: HCC8S40D010BZ-HM82555950-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4053.9
2.5°	4017.6
5°	3928.4
7.5°	3802.9
10°	3654.4
12.5°	3515.7
15°	3393.6
17.5°	3278.1
20°	3175.8
22.5°	3073.4
25°	2944.7
27.5°	2759.7
30°	2499.0
32.5°	2089.6
35°	1505.4
37.5°	1026.6
40°	785.6
42.5°	676.8
45°	607.4
47.5°	548.0
50°	498.5
52.5°	455.5
55°	419.2
57.5°	376.3
60°	333.4
62.5°	290.5
65°	254.2
67.5°	217.9
70°	181.6
72.5°	151.8
75°	122.1
77.5°	95.7
80°	72.6
82.5°	52.8
85°	33.0
87.5°	16.5
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)