

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: P584509

Luminaire Tested: **HCC8S40D010BZ-HM82555827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584509
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-HM82555827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

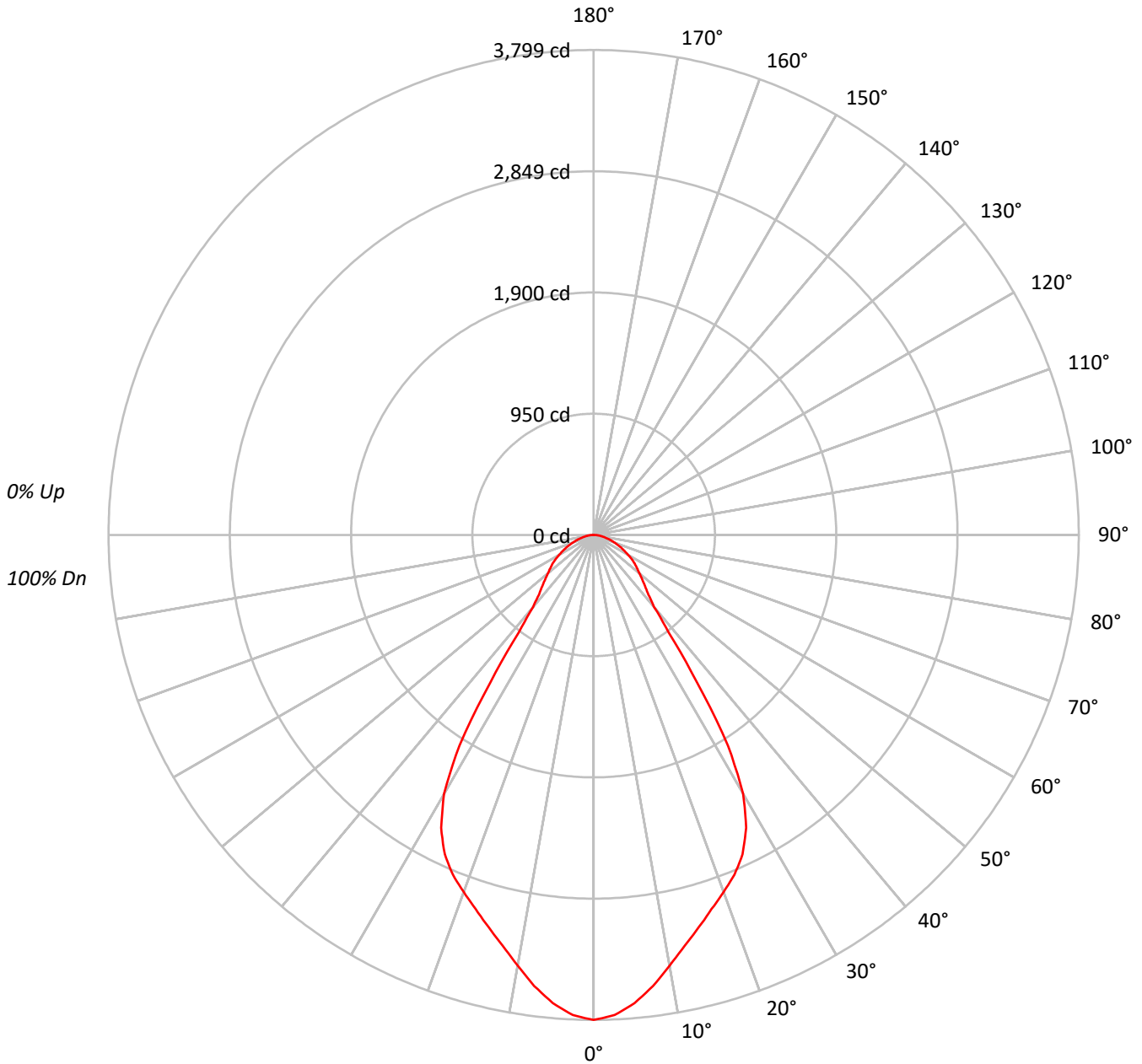
Lumens per Lamp: N/A
Luminaire Lumens: 4581.8 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584509
CATALOG NUMBER: HCC8S40D010BZ-HM82555827-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584509

CATALOG NUMBER: HCC8S40D010BZ-HM82555827-81MDW

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°	117153
5°	113961
10°	107241
15°	101535
20°	97668
25°	93896
30°	83391
35°	53105
40°	29643
45°	24827
50°	22413
55°	21123
60°	19273
65°	17380
70°	15345
75°	13642
80°	12093
85°	10933



TEST NUMBER: P584509
 CATALOG NUMBER: HCC8S40D010BZ-HM82555827-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.2	7.5
10°-20°	897.0	19.6
20°-30°	1251.3	27.3
30°-40°	900.4	19.7
40°-50°	446.3	9.7
50°-60°	349.1	7.6
60°-70°	236.4	5.2
70°-80°	122.8	2.7
80°-90°	35.4	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°	2491.5	54.4
0°-40°	3391.9	74.0
0°-60°	4187.3	91.4
0°-90°	4581.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4581.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3799	
5°	3682	343
15°	3180	897
25°	2760	1251
35°	1411	900
45°	569	446
55°	393	349
65°	238	236
75°	114	123
85°	31	35
90°	0	



TEST NUMBER: P584509
CATALOG NUMBER: HCC8S40D010BZ-HM82555827-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3799.2
2.5°	3765.2
5°	3681.6
7.5°	3564.0
10°	3424.9
12.5°	3295.0
15°	3180.5
17.5°	3072.2
20°	2976.3
22.5°	2880.4
25°	2759.7
27.5°	2586.5
30°	2342.0
32.5°	1958.4
35°	1410.7
37.5°	962.2
40°	736.4
42.5°	634.3
45°	569.3
47.5°	513.6
50°	467.2
52.5°	427.0
55°	392.9
57.5°	352.7
60°	312.5
62.5°	272.3
65°	238.2
67.5°	204.2
70°	170.2
72.5°	142.3
75°	114.5
77.5°	89.7
80°	68.1
82.5°	49.5
85°	30.9
87.5°	15.5
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)