

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: P584632

Luminaire Tested: **HCC8W40D010MB-HM82555940-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W40D010MB-HM82555940-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

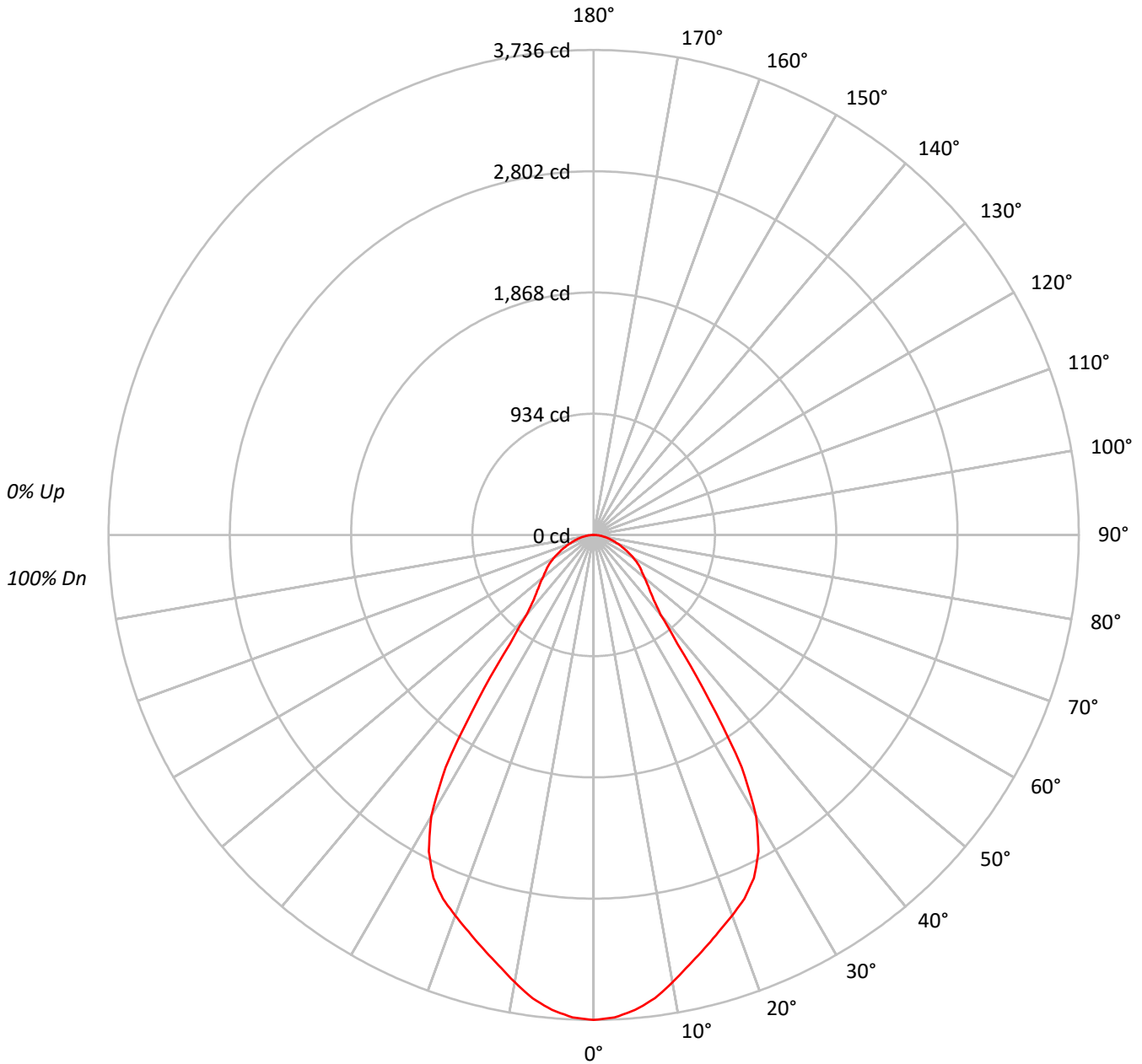
Lumens per Lamp: N/A
Luminaire Lumens: 4908.5 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584632
CATALOG NUMBER: HCC8W40D010MB-HM82555940-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P584632
 CATALOG NUMBER: HCC8W40D010MB-HM82555940-81PSMDW

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	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115220
5°	113719
10°	109554
15°	105270
20°	102358
25°	99279
30°	89088
35°	58401
40°	32288
45°	26920
50°	24543
55°	23424
60°	21783
65°	19744
70°	17852
75°	16120
80°	14650
85°	14011



TEST NUMBER: P584632
 CATALOG NUMBER: HCC8W40D010MB-HM82555940-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	7.0
10°-20°	930.3	19.0
20°-30°	1324.0	27.0
30°-40°	979.9	20.0
40°-50°	485.3	9.9
50°-60°	387.4	7.9
60°-70°	268.9	5.5
70°-80°	144.9	3.0
80°-90°	42.6	0.9
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°	2599.5	53.0
0°-40°	3579.4	72.9
0°-60°	4452.1	90.7
0°-90°	4908.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4908.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3736	
5°	3674	345
15°	3298	930
25°	2918	1324
35°	1551	980
45°	617	485
55°	436	387
65°	271	269
75°	135	145
85°	40	43
90°	0	



TEST NUMBER: P584632
CATALOG NUMBER: HCC8W40D010MB-HM82555940-81PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3736.5
2.5°	3719.9
5°	3673.8
7.5°	3601.2
10°	3498.8
12.5°	3393.2
15°	3297.5
17.5°	3205.0
20°	3119.2
22.5°	3033.4
25°	2917.9
27.5°	2749.5
30°	2502.0
32.5°	2122.4
35°	1551.4
37.5°	1059.6
40°	802.1
42.5°	686.5
45°	617.3
47.5°	561.1
50°	511.6
52.5°	468.7
55°	435.7
57.5°	396.2
60°	353.2
62.5°	310.2
65°	270.6
67.5°	231.1
70°	198.0
72.5°	165.1
75°	135.3
77.5°	108.9
80°	82.5
82.5°	59.4
85°	39.6
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)