

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: P584553

Luminaire Tested: **HCC8S40D010MB-HM82555835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S40D010MB-HM82555835-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

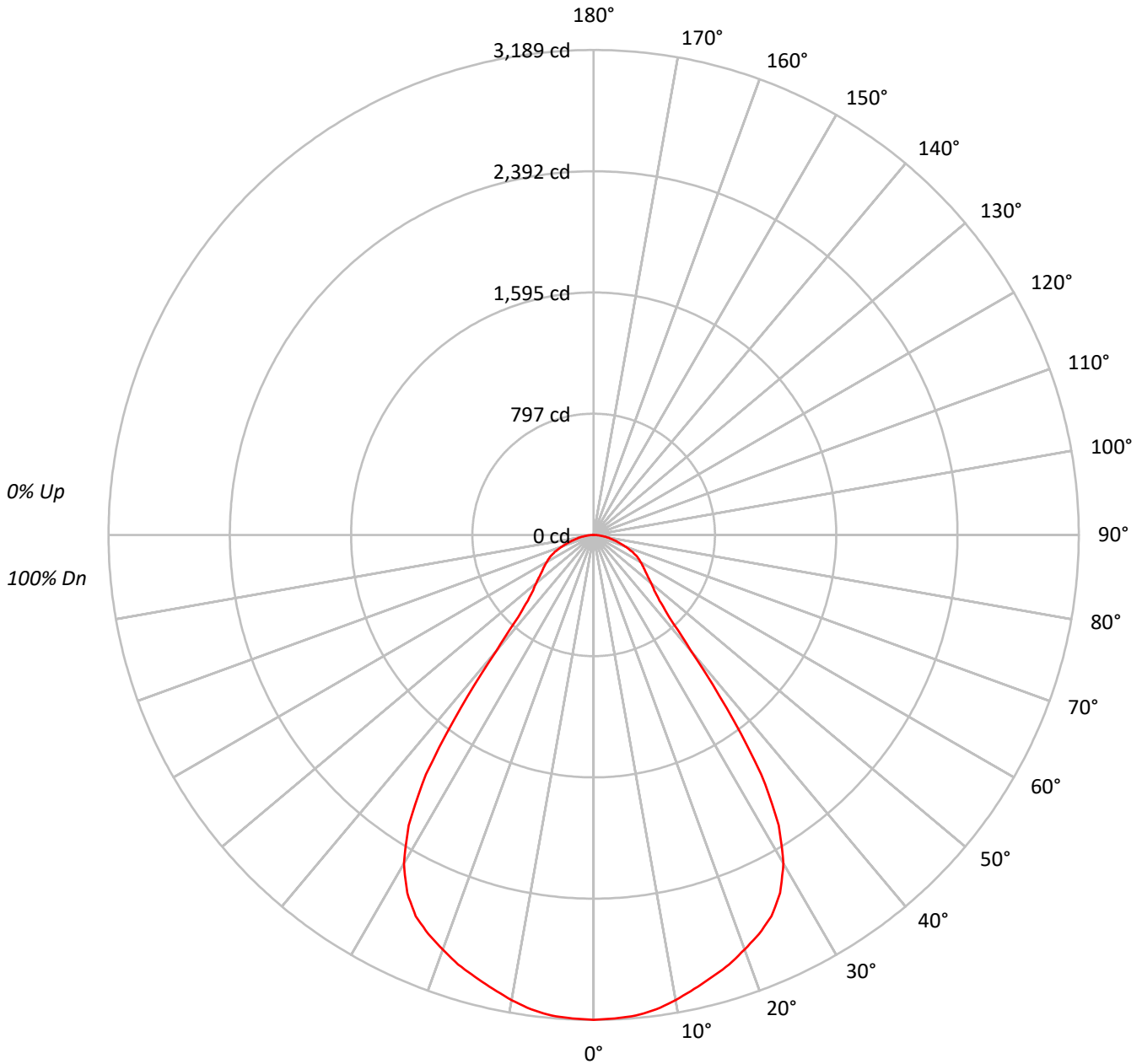
Lumens per Lamp: N/A
Luminaire Lumens: 4918.7 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): 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: P584553
CATALOG NUMBER: HCC8S40D010MB-HM82555835-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584553

CATALOG NUMBER: HCC8S40D010MB-HM82555835-81WDW

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98337
5°	98217
10°	97249
15°	96079
20°	95194
25°	94124
30°	88810
35°	72314
40°	39956
45°	26667
50°	23651
55°	22203
60°	21925
65°	21722
70°	19637
75°	17550
80°	15343
85°	13586



TEST NUMBER: P584553
 CATALOG NUMBER: HCC8S40D010MB-HM82555835-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	6.1
10°-20°	849.8	17.3
20°-30°	1262.7	25.7
30°-40°	1137.1	23.1
40°-50°	504.1	10.2
50°-60°	373.4	7.6
60°-70°	290.3	5.9
70°-80°	157.4	3.2
80°-90°	43.1	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°	2413.3	49.1
0°-40°	3550.4	72.2
0°-60°	4427.9	90.0
0°-90°	4918.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3189	
5°	3173	301
15°	3010	850
25°	2766	1263
35°	1921	1137
45°	612	504
55°	413	373
65°	298	290
75°	147	157
85°	38	43
90°	0	



TEST NUMBER: P584553
CATALOG NUMBER: HCC8S40D010MB-HM82555835-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3189.0
2.5°	3182.5
5°	3173.0
7.5°	3147.3
10°	3105.8
12.5°	3057.7
15°	3009.6
17.5°	2961.7
20°	2900.9
22.5°	2839.9
25°	2766.4
27.5°	2654.3
30°	2494.2
32.5°	2263.6
35°	1921.0
37.5°	1434.4
40°	992.6
42.5°	733.2
45°	611.5
47.5°	541.1
50°	493.0
52.5°	448.3
55°	413.0
57.5°	384.3
60°	355.5
62.5°	329.7
65°	297.7
67.5°	259.3
70°	217.8
72.5°	182.5
75°	147.3
77.5°	115.3
80°	86.4
82.5°	60.8
85°	38.4
87.5°	16.1
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)