

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: P584649

Luminaire Tested: **HCC8S45D010MW-HM82555827-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584649
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: HCC8S45D010MW-HM82555827-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

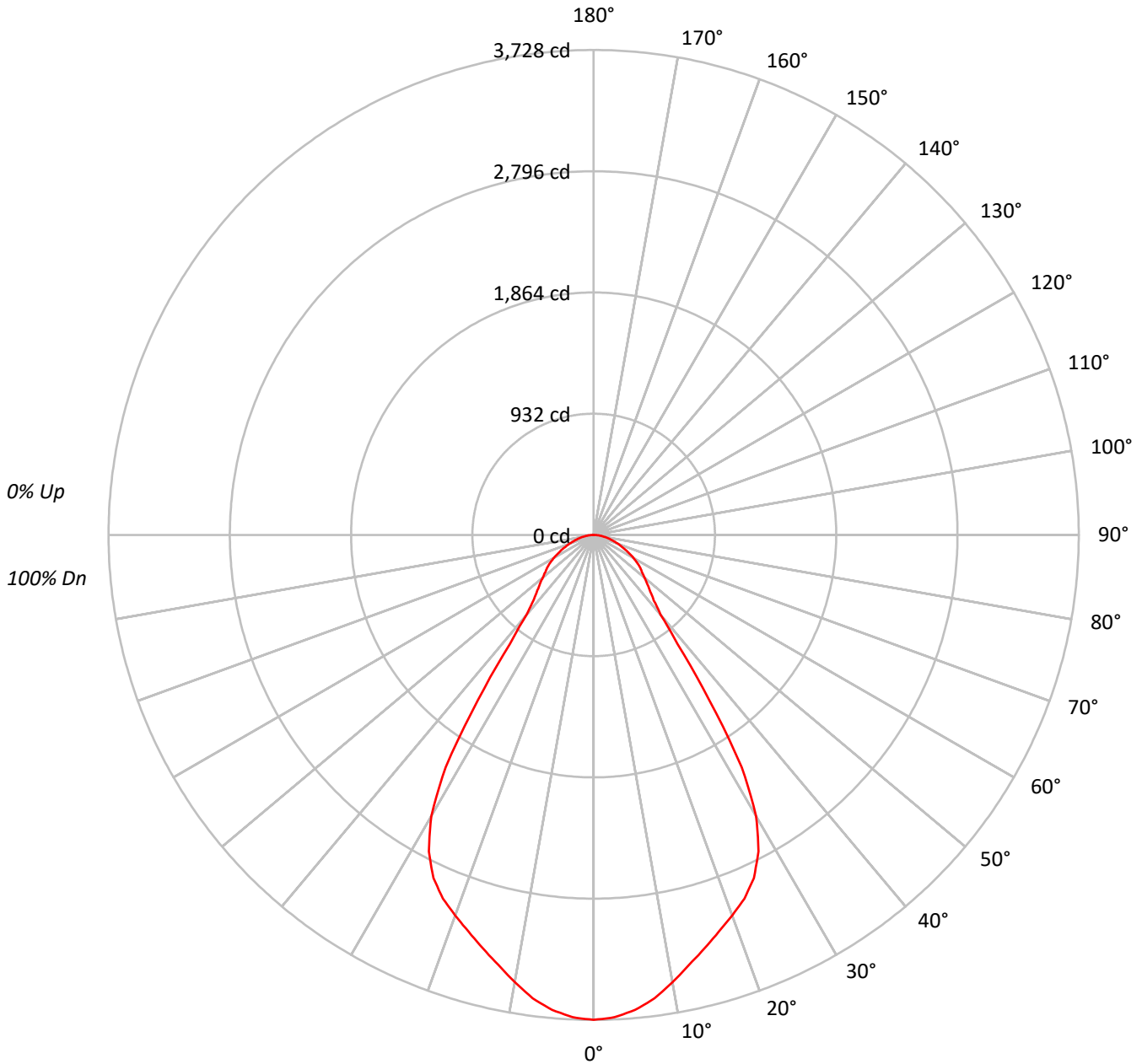
Lumens per Lamp: N/A
Luminaire Lumens: 4897.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P584649
CATALOG NUMBER: HCC8S45D010MW-HM82555827-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P584649
 CATALOG NUMBER: HCC8S45D010MW-HM82555827-81PSMDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
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°	114949
5°	113453
10°	109298
15°	105021
20°	102118
25°	99044
30°	88878
35°	58266
40°	32211
45°	26855
50°	24485
55°	23370
60°	21733
65°	19701
70°	17806
75°	16084
80°	14615
85°	13975



TEST NUMBER: P584649
 CATALOG NUMBER: HCC8S45D010MW-HM82555827-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.4	7.0
10°-20°	928.1	19.0
20°-30°	1320.9	27.0
30°-40°	977.6	20.0
40°-50°	484.2	9.9
50°-60°	386.5	7.9
60°-70°	268.3	5.5
70°-80°	144.5	3.0
80°-90°	42.5	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°	2593.4	53.0
0°-40°	3571.0	72.9
0°-60°	4441.6	90.7
0°-90°	4897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4897.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3728	
5°	3665	344
15°	3290	928
25°	2911	1321
35°	1548	978
45°	616	484
55°	435	386
65°	270	268
75°	135	145
85°	40	43
90°	0	



TEST NUMBER: P584649
CATALOG NUMBER: HCC8S45D010MW-HM82555827-81PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3727.7
2.5°	3711.3
5°	3665.2
7.5°	3592.7
10°	3490.6
12.5°	3385.3
15°	3289.7
17.5°	3197.5
20°	3111.9
22.5°	3026.3
25°	2911.0
27.5°	2743.1
30°	2496.1
32.5°	2117.4
35°	1547.8
37.5°	1057.1
40°	800.2
42.5°	684.9
45°	615.8
47.5°	559.8
50°	510.4
52.5°	467.6
55°	434.7
57.5°	395.2
60°	352.4
62.5°	309.6
65°	270.0
67.5°	230.5
70°	197.5
72.5°	164.7
75°	135.0
77.5°	108.6
80°	82.3
82.5°	59.2
85°	39.5
87.5°	16.4
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)