

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: P584655

Luminaire Tested: **HCC8S45D010MB-HM82555827-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584655
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: HCC8S45D010MB-HM82555827-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

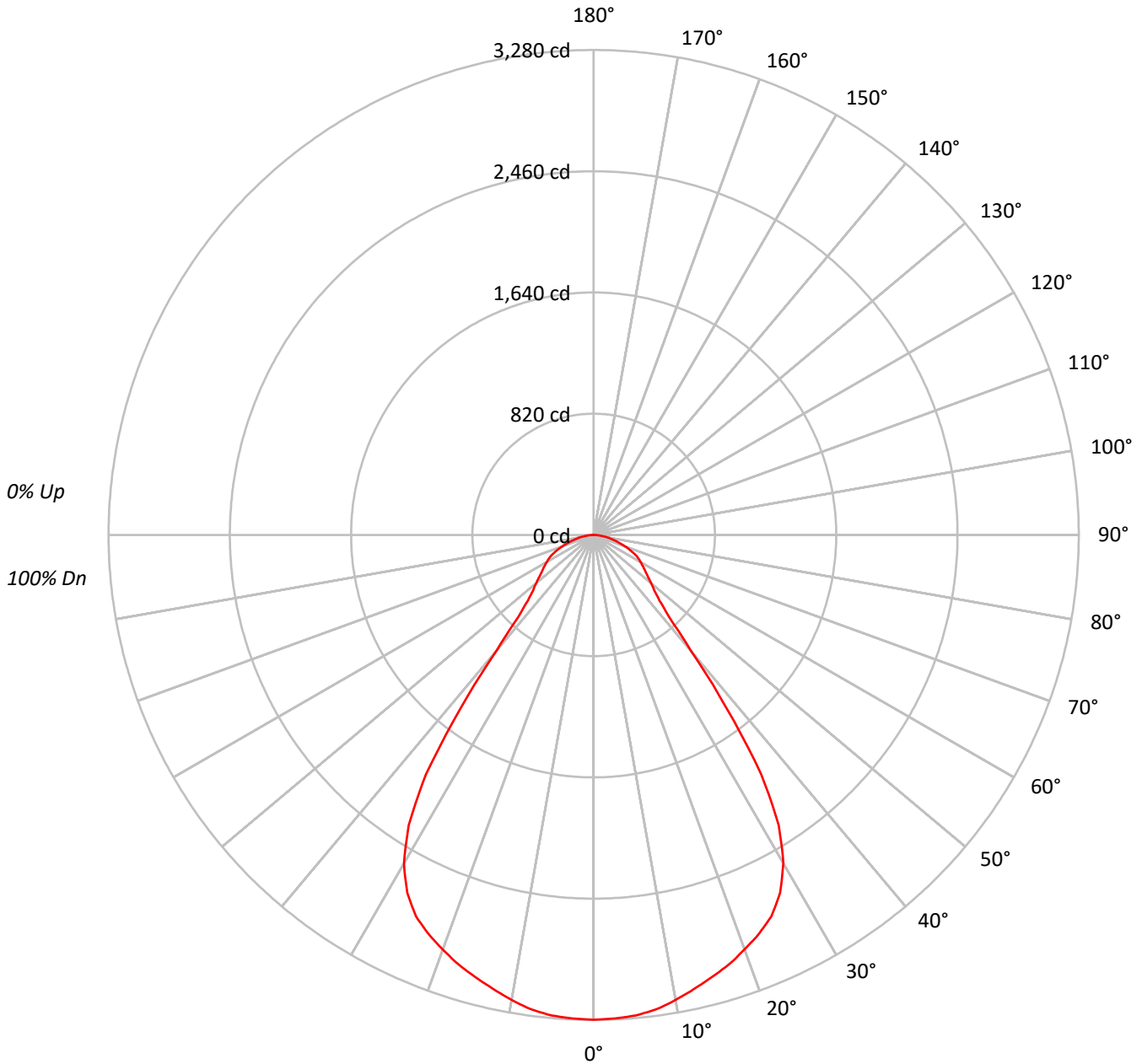
Lumens per Lamp: N/A
Luminaire Lumens: 5058.4 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P584655
CATALOG NUMBER: HCC8S45D010MB-HM82555827-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584655

CATALOG NUMBER: HCC8S45D010MB-HM82555827-81WDW

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	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°	101128
5°	101006
10°	100011
15°	98808
20°	97895
25°	96795
30°	91331
35°	74370
40°	41087
45°	27430
50°	24327
55°	22832
60°	22541
65°	22349
70°	20187
75°	18038
80°	15787
85°	13975



TEST NUMBER: P584655
 CATALOG NUMBER: HCC8S45D010MB-HM82555827-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	6.1
10°-20°	873.9	17.3
20°-30°	1298.6	25.7
30°-40°	1169.4	23.1
40°-50°	518.5	10.2
50°-60°	383.9	7.6
60°-70°	298.6	5.9
70°-80°	161.9	3.2
80°-90°	44.3	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°	2481.8	49.1
0°-40°	3651.2	72.2
0°-60°	4553.6	90.0
0°-90°	5058.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5058.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3280	
5°	3263	309
15°	3095	874
25°	2845	1299
35°	1976	1169
45°	629	518
55°	425	384
65°	306	299
75°	151	162
85°	40	44
90°	0	



TEST NUMBER: P584655
CATALOG NUMBER: HCC8S45D010MB-HM82555827-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3279.5
2.5°	3272.9
5°	3263.1
7.5°	3236.7
10°	3194.0
12.5°	3144.6
15°	3095.1
17.5°	3045.7
20°	2983.2
22.5°	2920.7
25°	2844.9
27.5°	2729.7
30°	2565.0
32.5°	2327.9
35°	1975.6
37.5°	1475.2
40°	1020.7
42.5°	754.0
45°	629.0
47.5°	556.5
50°	507.1
52.5°	461.0
55°	424.7
57.5°	395.1
60°	365.5
62.5°	339.1
65°	306.3
67.5°	266.7
70°	223.9
72.5°	187.7
75°	151.4
77.5°	118.6
80°	88.9
82.5°	62.5
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)