

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: P584747

Luminaire Tested: **HCC8W45D010MB-HM82555935-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584747
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: HCC8W45D010MB-HM82555935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

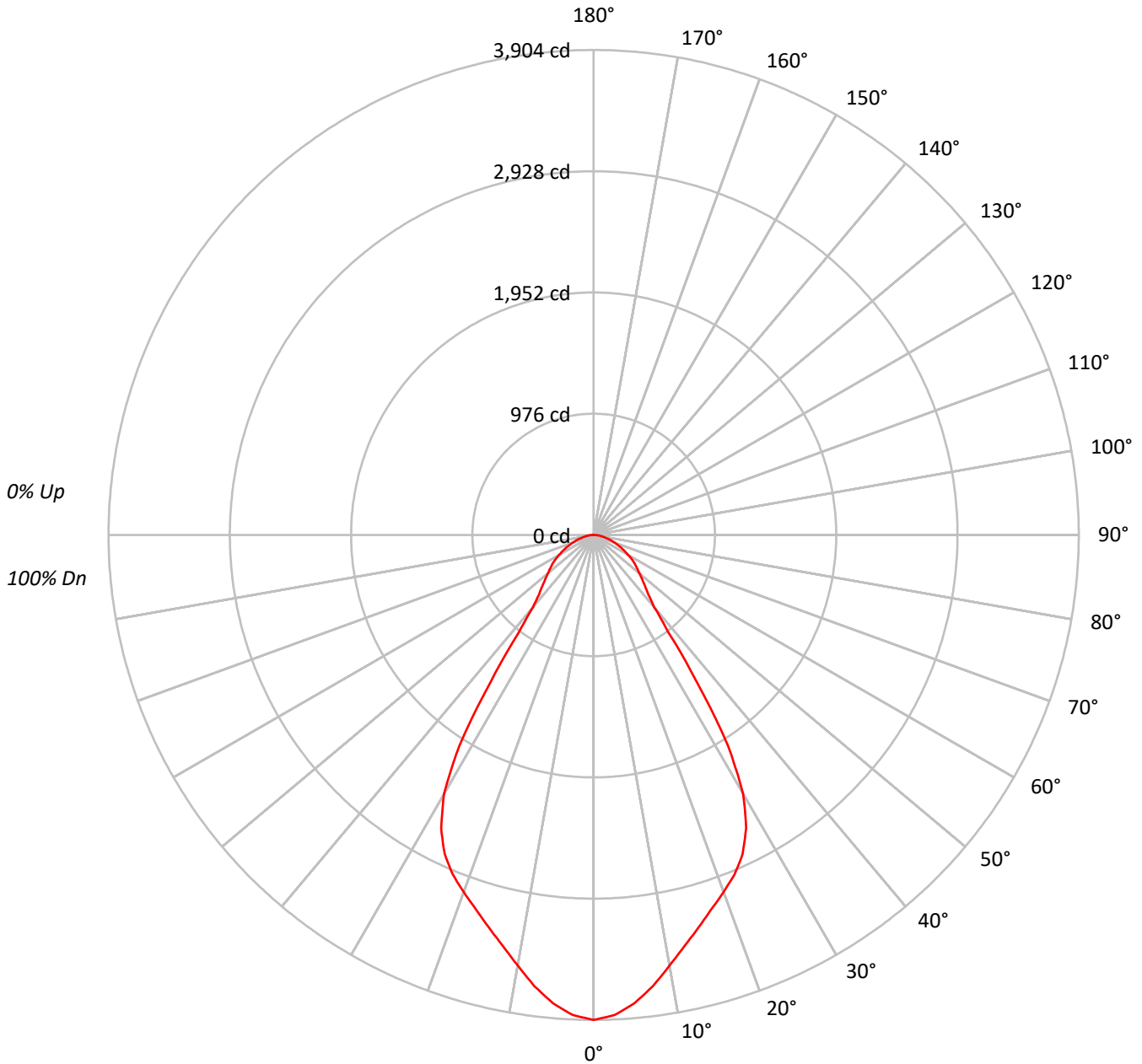
Lumens per Lamp: N/A
Luminaire Lumens: 4708.2 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P584747
CATALOG NUMBER: HCC8W45D010MB-HM82555935-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584747

CATALOG NUMBER: HCC8W45D010MB-HM82555935-81MDW

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	120385
5°	117106
10°	110200
15°	104334
20°	100362
25°	96486
30°	85691
35°	54573
40°	30456
45°	25511
50°	23032
55°	21704
60°	19803
65°	17862
70°	15769
75°	14023
80°	12413
85°	11251



TEST NUMBER: P584747
 CATALOG NUMBER: HCC8W45D010MB-HM82555935-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.7	7.5
10°-20°	921.7	19.6
20°-30°	1285.8	27.3
30°-40°	925.2	19.7
40°-50°	458.5	9.7
50°-60°	358.8	7.6
60°-70°	242.9	5.2
70°-80°	126.2	2.7
80°-90°	36.4	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°	2560.2	54.4
0°-40°	3485.5	74.0
0°-60°	4302.7	91.4
0°-90°	4708.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4708.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3904	
5°	3783	353
15°	3268	922
25°	2836	1286
35°	1450	925
45°	585	459
55°	404	359
65°	245	243
75°	118	126
85°	32	36
90°	0	



TEST NUMBER: P584747
CATALOG NUMBER: HCC8W45D010MB-HM82555935-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3904.0
2.5°	3869.0
5°	3783.2
7.5°	3662.5
10°	3519.4
12.5°	3385.9
15°	3268.2
17.5°	3156.9
20°	3058.4
22.5°	2959.8
25°	2835.8
27.5°	2657.8
30°	2406.6
32.5°	2012.4
35°	1449.7
37.5°	988.7
40°	756.6
42.5°	651.7
45°	585.0
47.5°	527.7
50°	480.1
52.5°	438.7
55°	403.7
57.5°	362.5
60°	321.1
62.5°	279.8
65°	244.8
67.5°	209.8
70°	174.9
72.5°	146.3
75°	117.7
77.5°	92.2
80°	69.9
82.5°	50.9
85°	31.8
87.5°	16.0
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)