

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: P584755

Luminaire Tested: **HCC8S45D010BZ-HM82555935-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010BZ-HM82555935-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

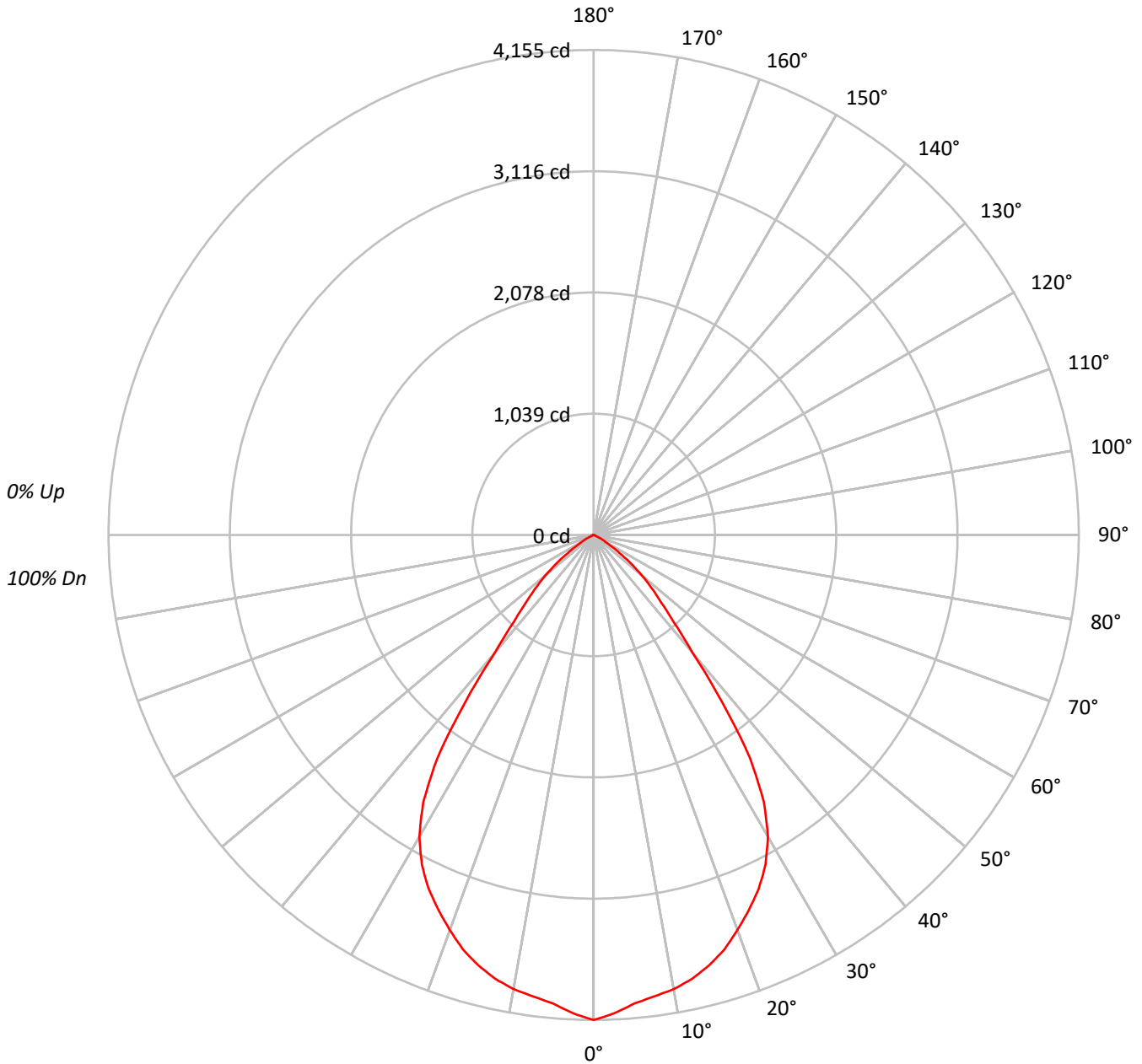
Lumens per Lamp: N/A
Luminaire Lumens: 5340.7 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584755
CATALOG NUMBER: HCC8S45D010BZ-HM82555935-81WDC

Luminous Intensity Polar Plot





TEST NUMBER: P584755

CATALOG NUMBER: HCC8S45D010BZ-HM82555935-81WDC

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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59	59	59	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128137
5°	124686
10°	123739
15°	121896
20°	118207
25°	113797
30°	106297
35°	87963
40°	53111
45°	35773
50°	25781
55°	14698
60°	6469
65°	2320
70°	857
75°	381
80°	0
85°	0



TEST NUMBER: P584755
 CATALOG NUMBER: HCC8S45D010BZ-HM82555935-81WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	7.2
10°-20°	1073.1	20.1
20°-30°	1530.8	28.7
30°-40°	1393.9	26.1
40°-50°	657.6	12.3
50°-60°	258.6	4.8
60°-70°	41.2	0.8
70°-80°	2.9	0.1
80°-90°	0.0	0.0
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°	2986.5	55.9
0°-40°	4380.4	82.0
0°-60°	5296.6	99.2
0°-90°	5340.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5340.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4155	
5°	4028	383
15°	3818	1073
25°	3345	1531
35°	2337	1394
45°	820	658
55°	273	259
65°	32	41
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P584755
CATALOG NUMBER: HCC8S45D010BZ-HM82555935-81WDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	4155.4
2.5°	4101.3
5°	4028.1
7.5°	3986.8
10°	3951.8
12.5°	3894.6
15°	3818.3
17.5°	3722.9
20°	3602.2
22.5°	3474.9
25°	3344.6
27.5°	3185.6
30°	2985.3
32.5°	2715.1
35°	2336.7
37.5°	1805.8
40°	1319.4
42.5°	1014.2
45°	820.3
47.5°	674.0
50°	537.4
52.5°	403.7
55°	273.4
57.5°	171.7
60°	104.9
62.5°	63.6
65°	31.8
67.5°	16.0
70°	9.5
72.5°	3.2
75°	3.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)