

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: P585308

Luminaire Tested: **HCC8W80D010BZ-HM86080940-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585308
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: HCC8W80D010BZ-HM86080940-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

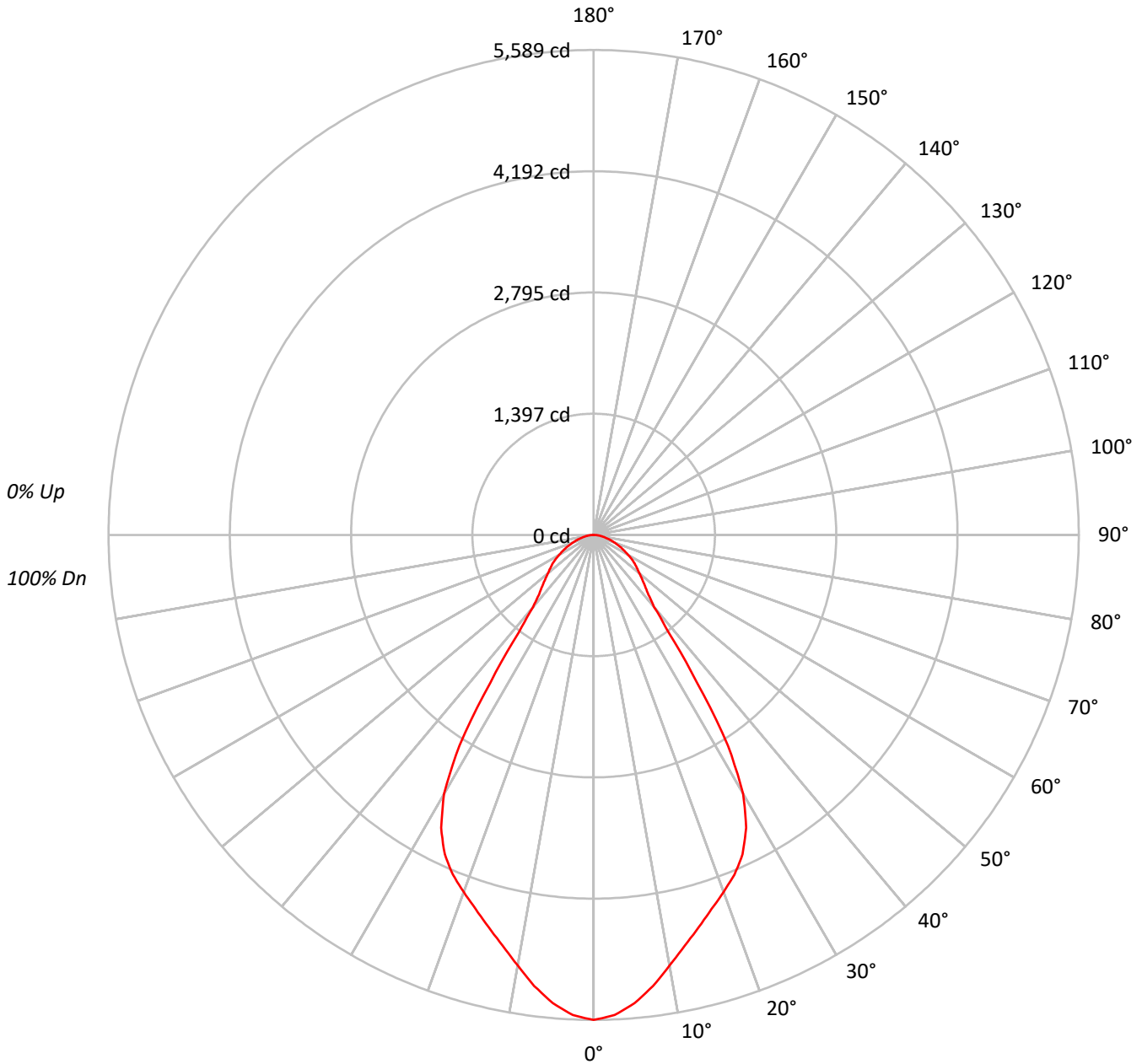
Lumens per Lamp: N/A
Luminaire Lumens: 6740.3 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P585308
CATALOG NUMBER: HCC8W80D010BZ-HM86080940-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P585308

CATALOG NUMBER: HCC8W80D010BZ-HM86080940-81MDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	172353
5°	167657
10°	157766
15°	149373
20°	143682
25°	138138
30°	122683
35°	78131
40°	43607
45°	36523
50°	32967
55°	31080
60°	28351
65°	25574
70°	22567
75°	20064
80°	17776
85°	16098



TEST NUMBER: P585308
 CATALOG NUMBER: HCC8W80D010BZ-HM86080940-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.9	7.5
10°-20°	1319.6	19.6
20°-30°	1840.9	27.3
30°-40°	1324.6	19.7
40°-50°	656.4	9.7
50°-60°	513.6	7.6
60°-70°	347.7	5.2
70°-80°	180.6	2.7
80°-90°	52.0	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°	3665.4	54.4
0°-40°	4990.0	74.0
0°-60°	6160.1	91.4
0°-90°	6740.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6740.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5589	
5°	5416	505
15°	4679	1320
25°	4060	1841
35°	2076	1325
45°	838	656
55°	578	514
65°	350	348
75°	168	181
85°	46	52
90°	0	



TEST NUMBER: P585308
CATALOG NUMBER: HCC8W80D010BZ-HM86080940-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	5589.3
2.5°	5539.2
5°	5416.3
7.5°	5243.3
10°	5038.5
12.5°	4847.3
15°	4679.0
17.5°	4519.6
20°	4378.5
22.5°	4237.5
25°	4060.0
27.5°	3805.0
30°	3445.5
32.5°	2881.1
35°	2075.5
37.5°	1415.5
40°	1083.3
42.5°	933.0
45°	837.5
47.5°	755.5
50°	687.2
52.5°	628.1
55°	578.1
57.5°	518.9
60°	459.7
62.5°	400.6
65°	350.5
67.5°	300.3
70°	250.3
72.5°	209.4
75°	168.4
77.5°	132.0
80°	100.1
82.5°	72.8
85°	45.5
87.5°	22.7
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)