

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: P585053

Luminaire Tested: **HCC8S60D010BZ-HM86080827-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585053  
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: HCC8S60D010BZ-HM86080827-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

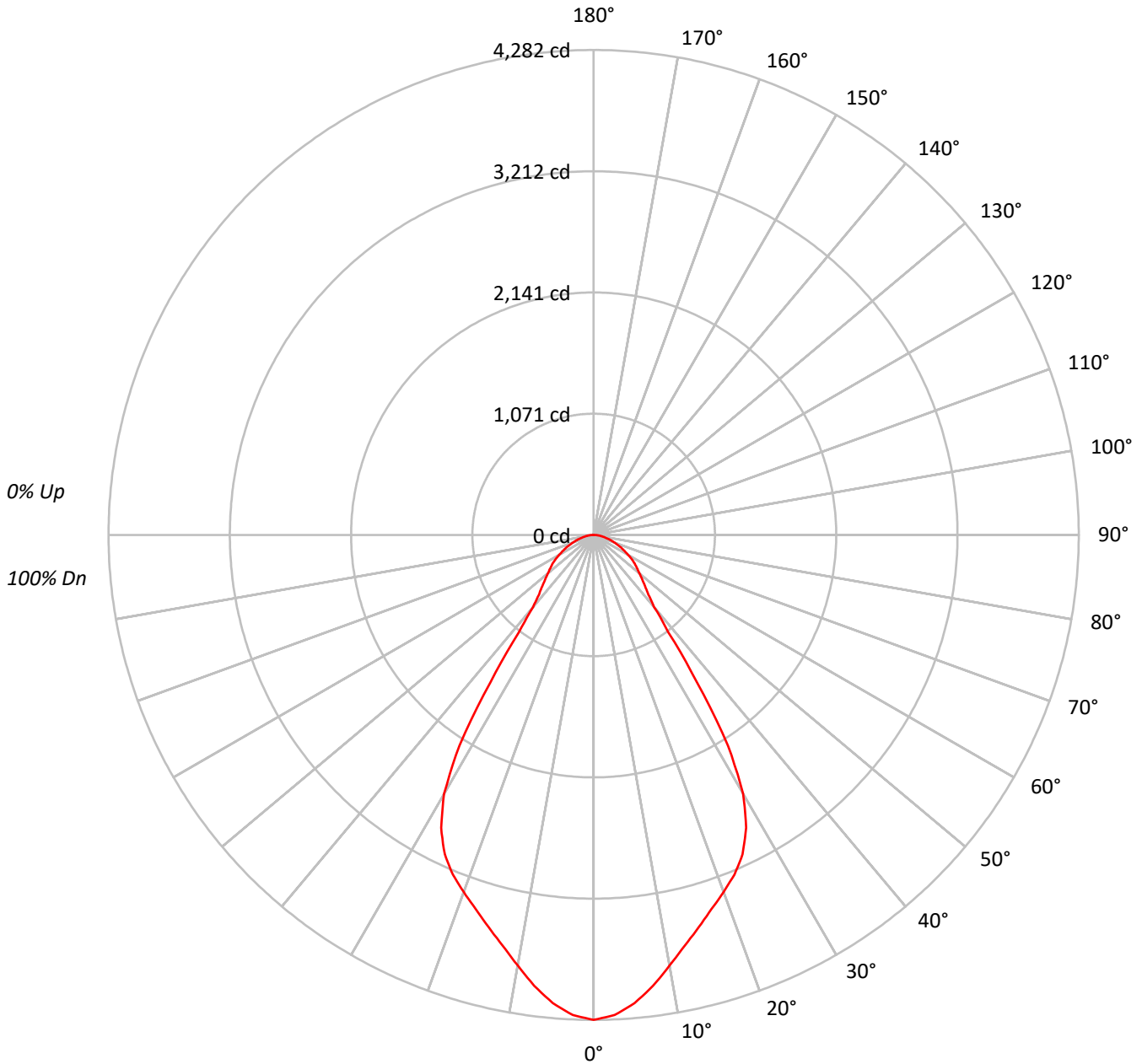
Lumens per Lamp: N/A  
Luminaire Lumens: 5163.6 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P585053  
CATALOG NUMBER: HCC8S60D010BZ-HM86080827-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585053  
 CATALOG NUMBER: HCC8S60D010BZ-HM86080827-81MDW

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	132035
5°	128435
10°	120861
15°	114429
20°	110072
25°	105825
30°	93980
35°	59854
40°	33407
45°	27975
50°	25258
55°	23806
60°	21715
65°	19591
70°	17293
75°	15381
80°	13620
85°	12312



TEST NUMBER: P585053  
 CATALOG NUMBER: HCC8S60D010BZ-HM86080827-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.8	7.5
10°-20°	1010.9	19.6
20°-30°	1410.3	27.3
30°-40°	1014.8	19.7
40°-50°	502.9	9.7
50°-60°	393.5	7.6
60°-70°	266.4	5.2
70°-80°	138.4	2.7
80°-90°	39.8	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°	2808.0	54.4
0°-40°	3822.7	74.0
0°-60°	4719.1	91.4
0°-90°	5163.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5163.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4282	
5°	4149	387
15°	3584	1011
25°	3110	1410
35°	1590	1015
45°	642	503
55°	443	393
65°	268	266
75°	129	138
85°	35	40
90°	0	



TEST NUMBER: P585053  
CATALOG NUMBER: HCC8S60D010BZ-HM86080827-81MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4281.8
2.5°	4243.5
5°	4149.2
7.5°	4016.8
10°	3859.9
12.5°	3713.4
15°	3584.4
17.5°	3462.4
20°	3354.3
22.5°	3246.2
25°	3110.3
27.5°	2915.0
30°	2639.4
32.5°	2207.1
35°	1590.0
37.5°	1084.4
40°	829.9
42.5°	714.8
45°	641.5
47.5°	578.8
50°	526.5
52.5°	481.2
55°	442.8
57.5°	397.5
60°	352.1
62.5°	306.8
65°	268.5
67.5°	230.1
70°	191.8
72.5°	160.4
75°	129.1
77.5°	101.2
80°	76.7
82.5°	55.8
85°	34.8
87.5°	17.4
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)