

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: P584377

Luminaire Tested: **HCC8S35D010SL-HM82555827-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S35D010SL-HM82555827-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

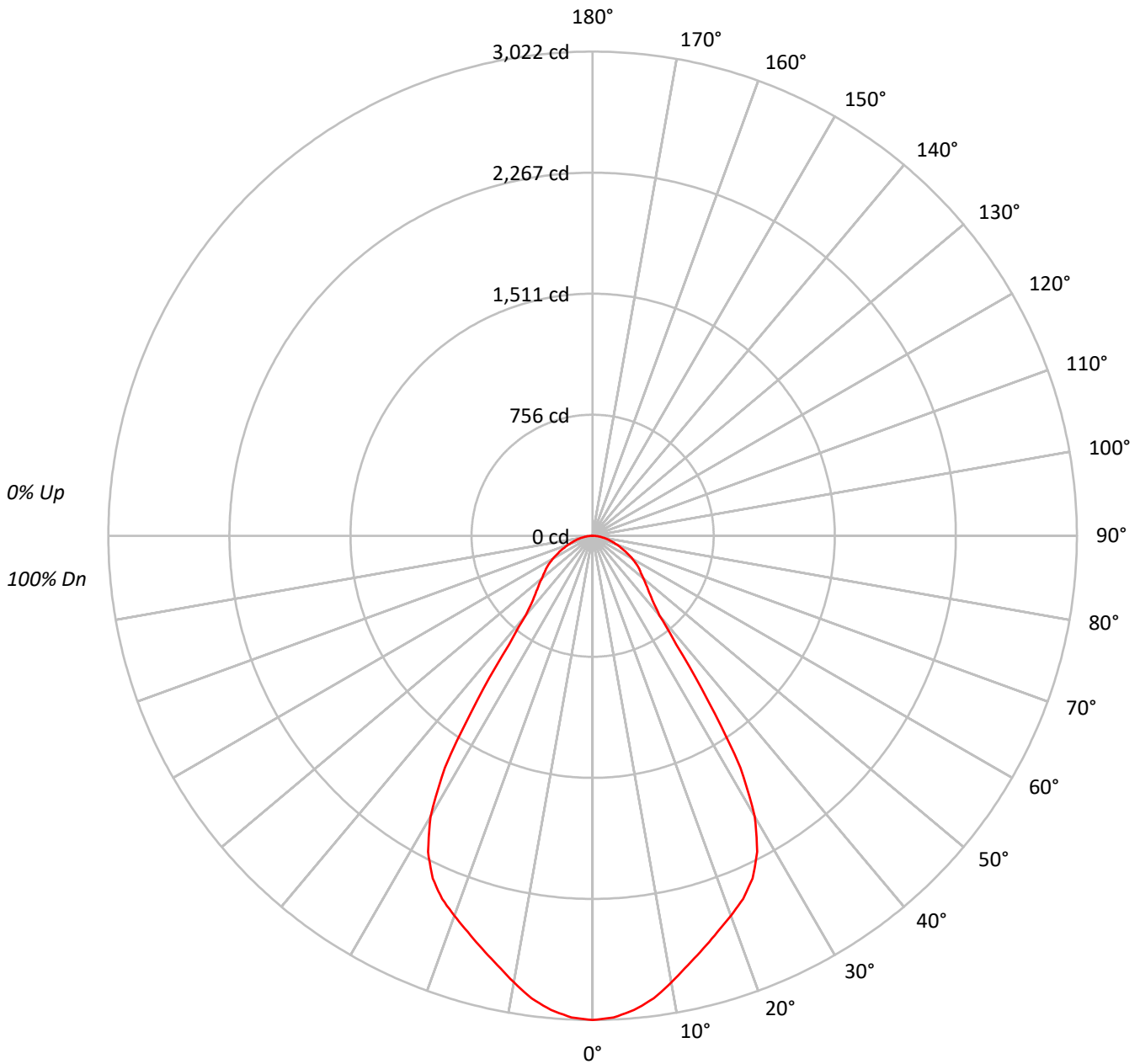
Lumens per Lamp: N/A  
Luminaire Lumens: 3970.4 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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: P584377  
CATALOG NUMBER: HCC8S35D010SL-HM82555827-81PSMDW

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P584377

CATALOG NUMBER: HCC8S35D010SL-HM82555827-81PSMDW

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

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

	0°
0°	93197
5°	91983
10°	88619
15°	85148
20°	82796
25°	80304
30°	72061
35°	47240
40°	26117
45°	21774
50°	19851
55°	18951
60°	17620
65°	15979
70°	14444
75°	13046
80°	11845
85°	11322



TEST NUMBER: P584377  
 CATALOG NUMBER: HCC8S35D010SL-HM82555827-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.2	7.0
10°-20°	752.5	19.0
20°-30°	1070.9	27.0
30°-40°	792.6	20.0
40°-50°	392.6	9.9
50°-60°	313.3	7.9
60°-70°	217.5	5.5
70°-80°	117.2	3.0
80°-90°	34.5	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°	2102.7	53.0
0°-40°	2895.3	72.9
0°-60°	3601.2	90.7
0°-90°	3970.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3970.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3022	
5°	2972	279
15°	2667	753
25°	2360	1071
35°	1255	793
45°	499	393
55°	352	313
65°	219	218
75°	110	117
85°	32	34
90°	0	



TEST NUMBER: P584377  
CATALOG NUMBER: HCC8S35D010SL-HM82555827-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3022.3
2.5°	3009.0
5°	2971.6
7.5°	2912.9
10°	2830.2
12.5°	2744.7
15°	2667.2
17.5°	2592.5
20°	2523.1
22.5°	2453.6
25°	2360.2
27.5°	2224.1
30°	2023.8
32.5°	1716.7
35°	1254.9
37.5°	857.0
40°	648.8
42.5°	555.4
45°	499.3
47.5°	453.9
50°	413.8
52.5°	379.2
55°	352.5
57.5°	320.3
60°	285.7
62.5°	251.0
65°	219.0
67.5°	186.9
70°	160.2
72.5°	133.5
75°	109.5
77.5°	88.1
80°	66.7
82.5°	48.0
85°	32.0
87.5°	13.3
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)