

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: P580507

Luminaire Tested: **HCC4S35D010SL-HM43040935-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S35D010SL-HM43040935-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

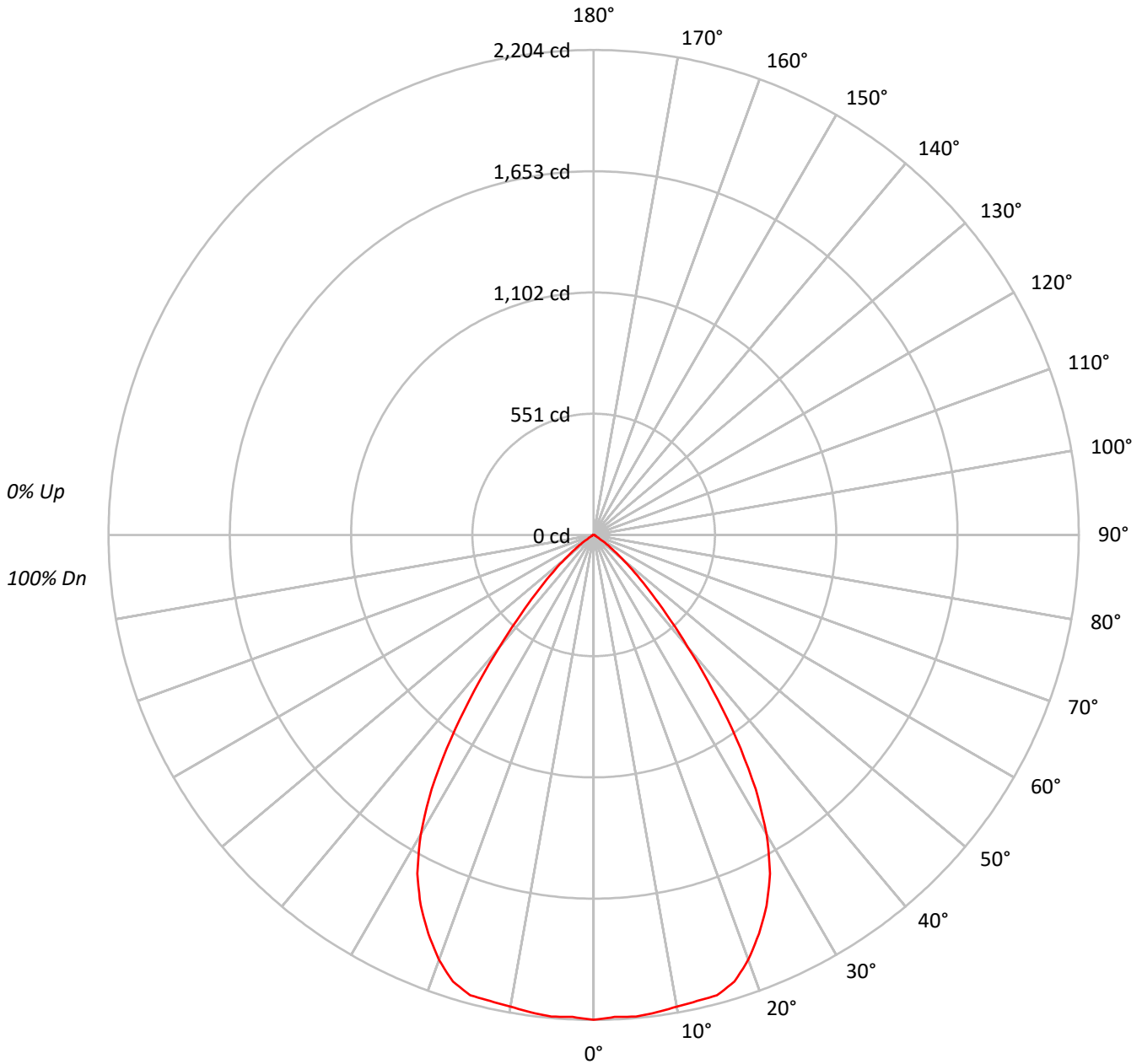
Lumens per Lamp: N/A  
Luminaire Lumens: 2725.3 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580507  
CATALOG NUMBER: HCC4S35D010SL-HM43040935-41WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P580507  
 CATALOG NUMBER: HCC4S35D010SL-HM43040935-41WDBB

**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	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

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

	0°
0°	271792
5°	272050
10°	272566
15°	276553
20°	269651
25°	253004
30°	223782
35°	170167
40°	107221
45°	61559
50°	32660
55°	13569
60°	3626
65°	3065
70°	2272
75°	2002
80°	1492
85°	2972



TEST NUMBER: P580507  
 CATALOG NUMBER: HCC4S35D010SL-HM43040935-41WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.0	7.7
10°-20°	606.4	22.3
20°-30°	846.3	31.1
30°-40°	696.4	25.6
40°-50°	286.9	10.5
50°-60°	64.7	2.4
60°-70°	10.4	0.4
70°-80°	3.9	0.1
80°-90°	1.4	0.1
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°	1661.7	61.0
0°-40°	2358.1	86.5
0°-60°	2709.7	99.4
0°-90°	2725.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2725.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2204	
5°	2197	209
15°	2166	606
25°	1859	846
35°	1130	696
45°	353	287
55°	63	65
65°	10	10
75°	4	4
85°	2	1
90°	0	



TEST NUMBER: P580507

CATALOG NUMBER: HCC4S35D010SL-HM43040935-41WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2203.5
2.5°	2193.0
5°	2197.2
7.5°	2188.8
10°	2176.2
12.5°	2169.9
15°	2165.7
17.5°	2128.0
20°	2054.3
22.5°	1961.9
25°	1859.0
27.5°	1735.1
30°	1571.2
32.5°	1369.6
35°	1130.1
37.5°	888.5
40°	665.9
42.5°	485.2
45°	352.9
47.5°	252.1
50°	170.2
52.5°	107.1
55°	63.1
57.5°	31.5
60°	14.7
62.5°	12.6
65°	10.5
67.5°	8.4
70°	6.3
72.5°	4.2
75°	4.2
77.5°	2.1
80°	2.1
82.5°	2.1
85°	2.1
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)