

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: P580493

Luminaire Tested: **HCC4S35D010SL-HM43040930-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S35D010SL-HM43040930-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

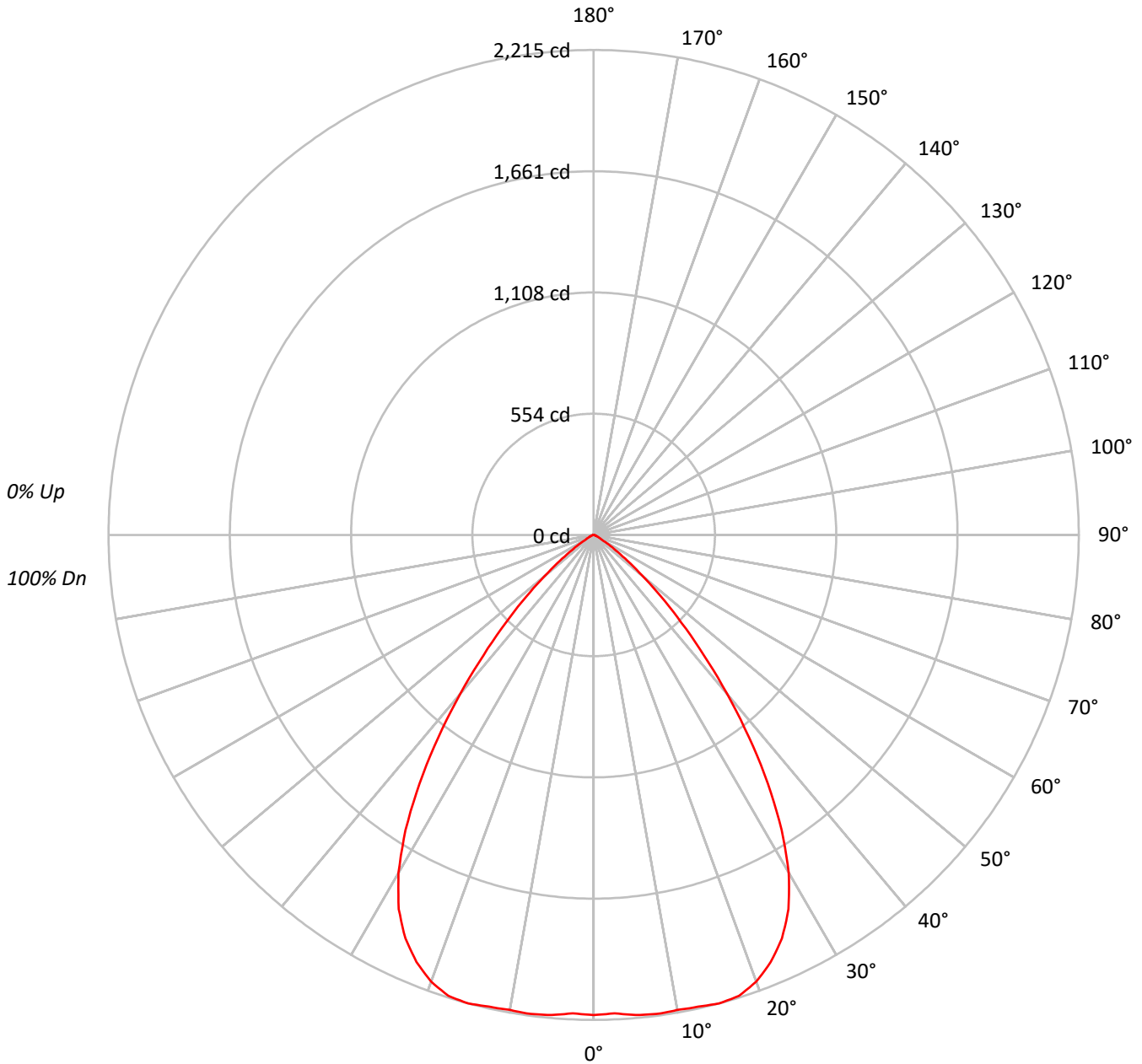
Lumens per Lamp: N/A  
Luminaire Lumens: 3217.3 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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															
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84															
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76															
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69															
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63				63															
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58				58															
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53				53															
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

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

	0°
0°	270497
5°	272533
10°	275947
15°	282874
20°	284956
25°	276794
30°	253791
35°	208820
40°	152225
45°	98801
50°	55687
55°	26451
60°	10460
65°	6450
70°	4364
75°	2907
80°	1421
85°	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.2	6.5
10°-20°	624.5	19.4
20°-30°	926.3	28.8
30°-40°	855.6	26.6
40°-50°	446.7	13.9
50°-60°	122.5	3.8
60°-70°	23.5	0.7
70°-80°	6.6	0.2
80°-90°	1.4	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°	1761.0	54.7
0°-40°	2616.6	81.3
0°-60°	3185.8	99.0
0°-90°	3217.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2193	
5°	2201	210
15°	2215	625
25°	2034	926
35°	1387	856
45°	566	447
55°	123	122
65°	22	24
75°	6	7
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2193.0
2.5°	2187.0
5°	2201.1
7.5°	2207.2
10°	2203.2
12.5°	2207.2
15°	2215.2
17.5°	2207.2
20°	2170.9
22.5°	2112.4
25°	2033.8
27.5°	1927.0
30°	1781.9
32.5°	1598.4
35°	1386.8
37.5°	1165.0
40°	945.4
42.5°	743.8
45°	566.4
47.5°	415.2
50°	290.2
52.5°	193.6
55°	123.0
57.5°	72.6
60°	42.4
62.5°	30.2
65°	22.1
67.5°	16.1
70°	12.1
72.5°	8.1
75°	6.1
77.5°	4.0
80°	2.0
82.5°	2.0
85°	2.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)