

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: P580429

Luminaire Tested: **HCC4S35D010BZ-HM43040830-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S35D010BZ-HM43040830-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

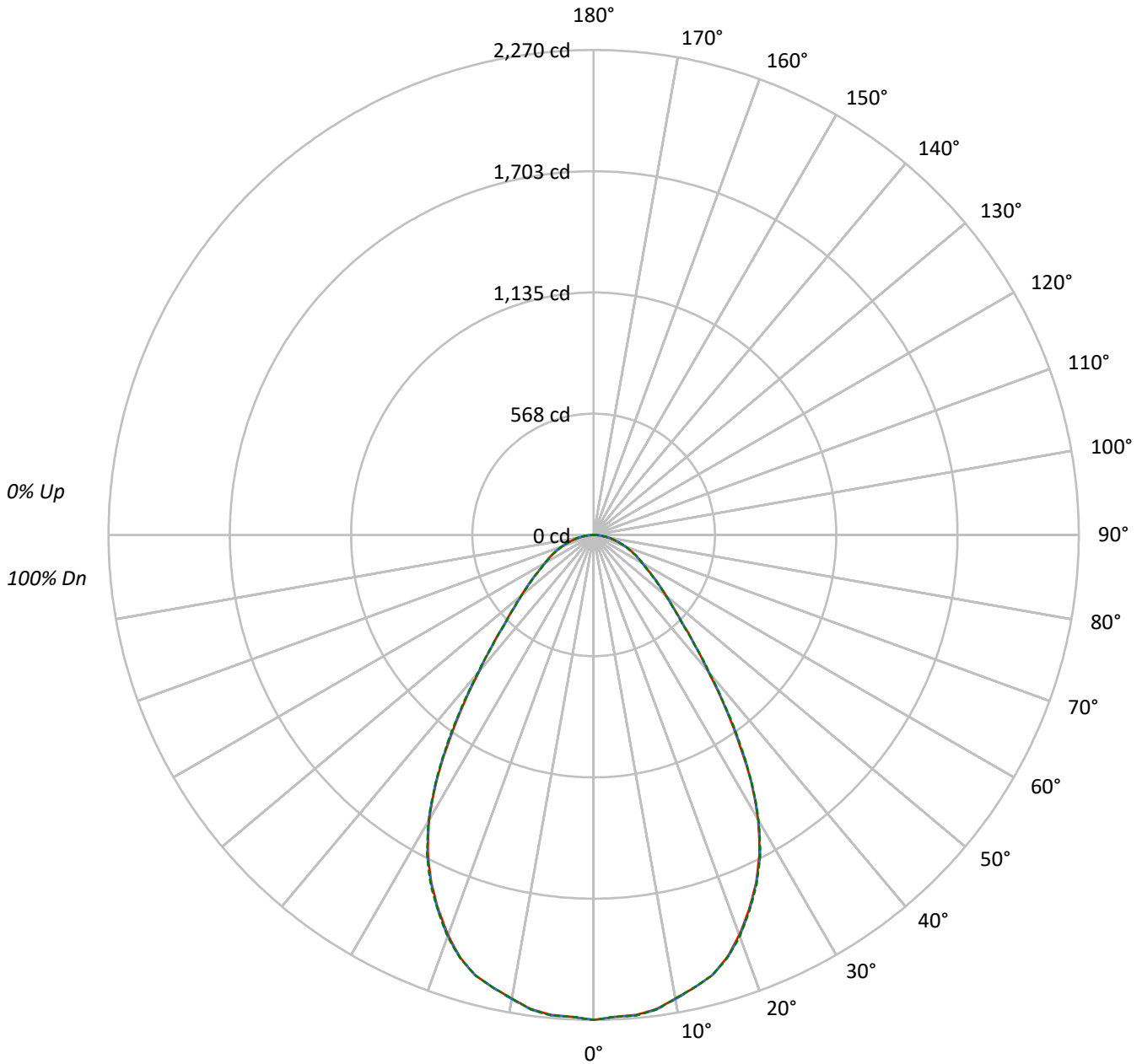
Lumens per Lamp: N/A  
Luminaire Lumens: 3501.7 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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					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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

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

	0°	45°	90°
0°	279945	279945	279945
5°	279256	279554	279554
10°	276010	276311	276010
15°	272709	272709	272709
20°	261513	262130	262445
25°	244607	244920	245573
30°	219181	219851	219851
35°	177952	179353	179714
40°	134288	135044	135431
45°	102866	102464	102464
50°	84759	84317	84317
55°	72750	72256	72256
60°	64904	64337	64337
65°	61028	61028	61028
70°	56764	56764	56764
75°	51517	52613	51517
80°	48373	46739	48373
85°	39910	39910	39910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.8	6.1
10°-20°	598.4	17.1
20°-30°	822.3	23.5
30°-40°	739.3	21.1
40°-50°	467.2	13.3
50°-60°	305.0	8.7
60°-70°	206.6	5.9
70°-80°	116.3	3.3
80°-90°	32.7	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°	1634.5	46.7
0°-40°	2373.9	67.8
0°-60°	3146.0	89.8
0°-90°	3501.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3501.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2255	2255	2258	2258	2258	214
15°	2136	2136	2136	2136	2136	598
25°	1797	1800	1800	1804	1804	820
35°	1182	1186	1191	1196	1194	736
45°	590	587	587	587	587	468
55°	338	338	336	338	336	306
65°	209	209	209	209	209	207
75°	108	110	110	110	108	116
85°	28	28	28	28	28	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2269.6	2269.6	2269.6	2269.6	2269.6
2.5°	2257.8	2257.8	2257.8	2257.8	2257.8
5°	2255.4	2255.4	2257.8	2257.8	2257.8
7.5°	2239.0	2241.4	2241.4	2241.4	2241.4
10°	2203.7	2203.7	2206.1	2206.1	2203.7
12.5°	2170.9	2170.9	2170.9	2173.3	2170.9
15°	2135.6	2135.6	2135.6	2135.6	2135.6
17.5°	2074.6	2076.9	2076.9	2076.9	2076.9
20°	1992.3	1997.0	1997.0	1999.4	1999.4
22.5°	1898.3	1900.7	1903.0	1905.4	1903.0
25°	1797.3	1799.6	1799.6	1804.4	1804.4
27.5°	1679.8	1682.2	1686.9	1686.9	1686.9
30°	1538.9	1541.2	1543.6	1543.6	1543.6
32.5°	1372.1	1372.1	1376.8	1379.1	1376.8
35°	1181.8	1186.5	1191.1	1195.8	1193.5
37.5°	1000.8	1005.5	1007.9	1007.9	1010.3
40°	834.0	838.7	838.7	843.4	841.1
42.5°	702.5	700.1	700.1	704.9	702.5
45°	589.7	587.4	587.4	587.4	587.4
47.5°	507.5	505.1	505.1	505.1	505.1
50°	441.7	439.4	439.4	439.4	439.4
52.5°	387.7	385.3	385.3	385.3	382.9
55°	338.3	338.3	336.0	338.3	336.0
57.5°	293.7	293.7	293.7	293.7	293.7
60°	263.1	260.8	260.8	260.8	260.8
62.5°	234.9	234.9	234.9	234.9	234.9
65°	209.1	209.1	209.1	209.1	209.1
67.5°	183.2	180.9	183.2	183.2	180.9
70°	157.4	155.1	157.4	157.4	157.4
72.5°	131.6	131.6	131.6	133.9	131.6
75°	108.1	110.4	110.4	110.4	108.1
77.5°	86.9	89.2	86.9	86.9	86.9
80°	68.1	65.8	65.8	65.8	68.1
82.5°	47.0	47.0	47.0	47.0	47.0
85°	28.2	28.2	28.2	28.2	28.2
87.5°	11.8	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)