

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: P580411

Luminaire Tested: **HCC4W35D010BZ-HM43040827-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580411  
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: HCC4W35D010BZ-HM43040827-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

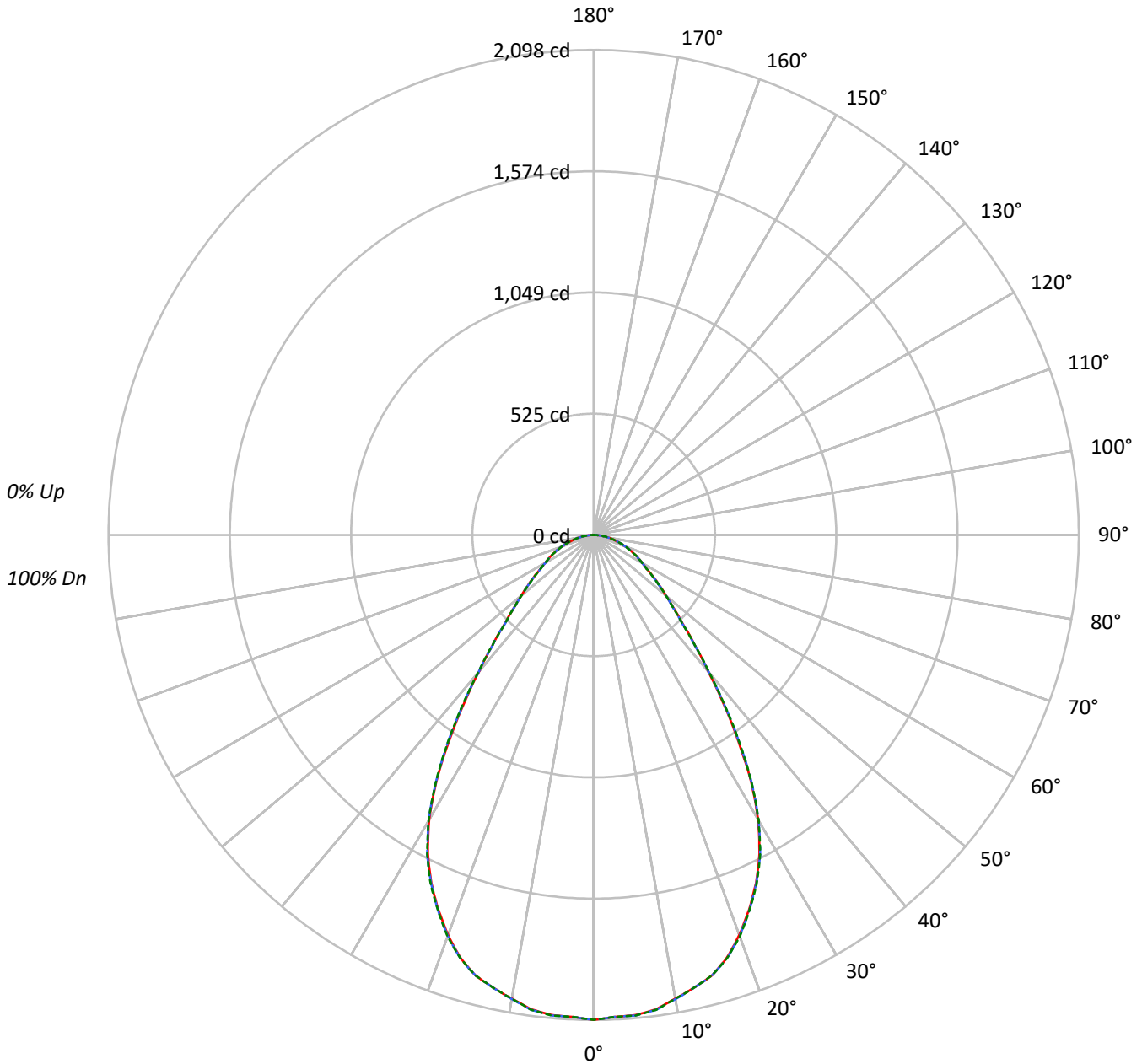
Lumens per Lamp: N/A  
Luminaire Lumens: 3236.7 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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°	258754	258754	258754
5°	258133	258393	258393
10°	255131	255407	255131
15°	252073	252073	252073
20°	241732	242283	242585
25°	226098	226397	226982
30°	202589	203215	203215
35°	164475	165801	166117
40°	124144	124820	125190
45°	95068	94702	94702
50°	78330	77927	77927
55°	67245	66793	66793
60°	59995	59477	59477
65°	56417	56417	56417
70°	52437	52437	52437
75°	47609	48658	47609
80°	44679	43187	44679
85°	36938	36938	36938



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.7	6.1
10°-20°	553.1	17.1
20°-30°	760.1	23.5
30°-40°	683.4	21.1
40°-50°	431.8	13.3
50°-60°	281.9	8.7
60°-70°	191.0	5.9
70°-80°	107.5	3.3
80°-90°	30.2	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°	1510.8	46.7
0°-40°	2194.2	67.8
0°-60°	2907.9	89.8
0°-90°	3236.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3236.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2098	2098	2098	2098	2098	
5°	2085	2085	2087	2087	2087	198
15°	1974	1974	1974	1974	1974	553
25°	1661	1664	1664	1668	1668	758
35°	1092	1097	1101	1105	1103	680
45°	545	543	543	543	543	432
55°	313	313	311	313	311	283
65°	193	193	193	193	193	192
75°	100	102	102	102	100	107
85°	26	26	26	26	26	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2097.8	2097.8	2097.8	2097.8	2097.8
2.5°	2086.9	2086.9	2086.9	2086.9	2086.9
5°	2084.8	2084.8	2086.9	2086.9	2086.9
7.5°	2069.5	2071.8	2071.8	2071.8	2071.8
10°	2037.0	2037.0	2039.2	2039.2	2037.0
12.5°	2006.6	2006.6	2006.6	2008.7	2006.6
15°	1974.0	1974.0	1974.0	1974.0	1974.0
17.5°	1917.5	1919.7	1919.7	1919.7	1919.7
20°	1841.6	1845.8	1845.8	1848.1	1848.1
22.5°	1754.7	1756.8	1759.1	1761.2	1759.1
25°	1661.3	1663.5	1663.5	1667.8	1667.8
27.5°	1552.7	1554.9	1559.2	1559.2	1559.2
30°	1422.4	1424.6	1426.8	1426.8	1426.8
32.5°	1268.2	1268.2	1272.6	1274.7	1272.6
35°	1092.3	1096.7	1101.1	1105.3	1103.2
37.5°	925.2	929.4	931.7	931.7	933.8
40°	771.0	775.2	775.2	779.6	777.5
42.5°	649.3	647.2	647.2	651.5	649.3
45°	545.0	542.9	542.9	542.9	542.9
47.5°	469.0	466.9	466.9	466.9	466.9
50°	408.2	406.1	406.1	406.1	406.1
52.5°	358.3	356.2	356.2	356.2	353.9
55°	312.7	312.7	310.6	312.7	310.6
57.5°	271.4	271.4	271.4	271.4	271.4
60°	243.2	241.1	241.1	241.1	241.1
62.5°	217.2	217.2	217.2	217.2	217.2
65°	193.3	193.3	193.3	193.3	193.3
67.5°	169.4	167.3	169.4	169.4	167.3
70°	145.4	143.3	145.4	145.4	145.4
72.5°	121.6	121.6	121.6	123.8	121.6
75°	99.9	102.1	102.1	102.1	99.9
77.5°	80.4	82.5	80.4	80.4	80.4
80°	62.9	60.8	60.8	60.8	62.9
82.5°	43.4	43.4	43.4	43.4	43.4
85°	26.1	26.1	26.1	26.1	26.1
87.5°	10.9	10.9	10.9	10.9	10.9
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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