

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: P580123

Luminaire Tested: **HCC4S25D010BZ-HM40525827-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580123  
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: HCC4S25D010BZ-HM40525827-41WDW  
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**

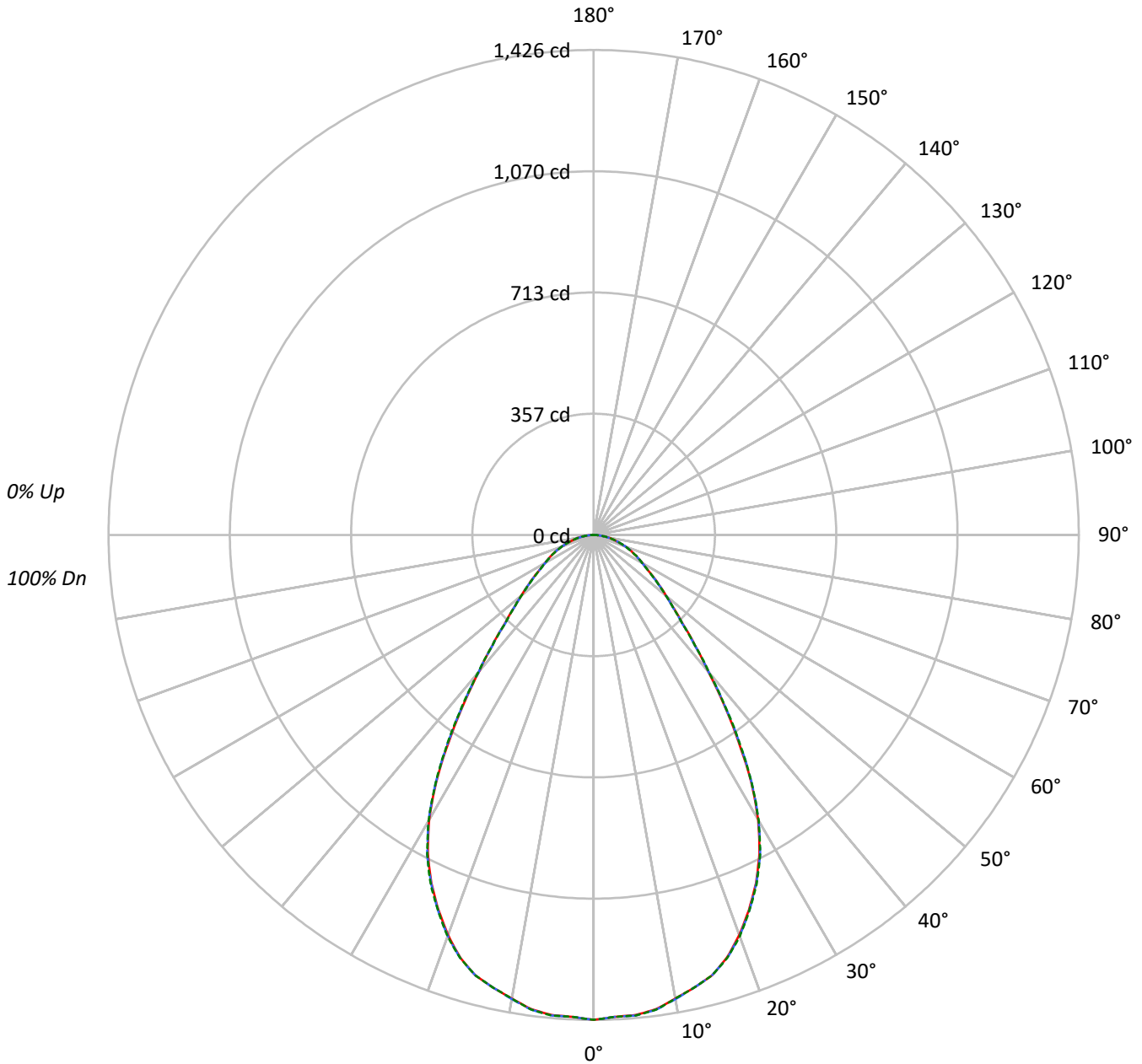
Lumens per Lamp: N/A  
Luminaire Lumens: 2199.7 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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°	175854	175854	175854
5°	175436	175622	175622
10°	173394	173569	173394
15°	171318	171318	171318
20°	164287	164668	164865
25°	153667	153871	154266
30°	137699	138112	138112
35°	111789	112677	112903
40°	84373	84839	85081
45°	64611	64367	64367
50°	53250	52962	52962
55°	45697	45375	45375
60°	40778	40408	40408
65°	38321	38321	38321
70°	35667	35667	35667
75°	32359	33026	32359
80°	30402	29336	30402
85°	25050	25050	25050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	6.1
10°-20°	375.9	17.1
20°-30°	516.6	23.5
30°-40°	464.5	21.1
40°-50°	293.5	13.3
50°-60°	191.6	8.7
60°-70°	129.8	5.9
70°-80°	73.0	3.3
80°-90°	20.5	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°	1026.8	46.7
0°-40°	1491.3	67.8
0°-60°	1976.4	89.8
0°-90°	2199.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1417	1417	1418	1418	1418	134
15°	1342	1342	1342	1342	1342	376
25°	1129	1131	1131	1134	1134	515
35°	742	745	748	751	750	462
45°	370	369	369	369	369	294
55°	212	212	211	212	211	192
65°	131	131	131	131	131	130
75°	68	69	69	69	68	73
85°	18	18	18	18	18	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1425.7	1425.7	1425.7	1425.7	1425.7
2.5°	1418.4	1418.4	1418.4	1418.4	1418.4
5°	1416.9	1416.9	1418.4	1418.4	1418.4
7.5°	1406.5	1408.0	1408.0	1408.0	1408.0
10°	1384.4	1384.4	1385.8	1385.8	1384.4
12.5°	1363.7	1363.7	1363.7	1365.2	1363.7
15°	1341.6	1341.6	1341.6	1341.6	1341.6
17.5°	1303.2	1304.7	1304.7	1304.7	1304.7
20°	1251.6	1254.5	1254.5	1256.0	1256.0
22.5°	1192.6	1194.0	1195.5	1197.0	1195.5
25°	1129.1	1130.6	1130.6	1133.5	1133.5
27.5°	1055.3	1056.7	1059.7	1059.7	1059.7
30°	966.8	968.2	969.7	969.7	969.7
32.5°	861.9	861.9	864.9	866.4	864.9
35°	742.4	745.4	748.3	751.2	749.8
37.5°	628.7	631.7	633.1	633.1	634.6
40°	524.0	526.9	526.9	529.8	528.4
42.5°	441.3	439.9	439.9	442.8	441.3
45°	370.4	369.0	369.0	369.0	369.0
47.5°	318.8	317.4	317.4	317.4	317.4
50°	277.5	276.0	276.0	276.0	276.0
52.5°	243.5	242.1	242.1	242.1	240.6
55°	212.5	212.5	211.0	212.5	211.0
57.5°	184.5	184.5	184.5	184.5	184.5
60°	165.3	163.8	163.8	163.8	163.8
62.5°	147.6	147.6	147.6	147.6	147.6
65°	131.3	131.3	131.3	131.3	131.3
67.5°	115.2	113.7	115.2	115.2	113.7
70°	98.9	97.4	98.9	98.9	98.9
72.5°	82.6	82.6	82.6	84.1	82.6
75°	67.9	69.3	69.3	69.3	67.9
77.5°	54.6	56.1	54.6	54.6	54.6
80°	42.8	41.3	41.3	41.3	42.8
82.5°	29.5	29.5	29.5	29.5	29.5
85°	17.7	17.7	17.7	17.7	17.7
87.5°	7.3	7.3	7.3	7.3	7.3
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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