

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: P580197

Luminaire Tested: **HCC4S25D010MB-HM40525927-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S25D010MB-HM40525927-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

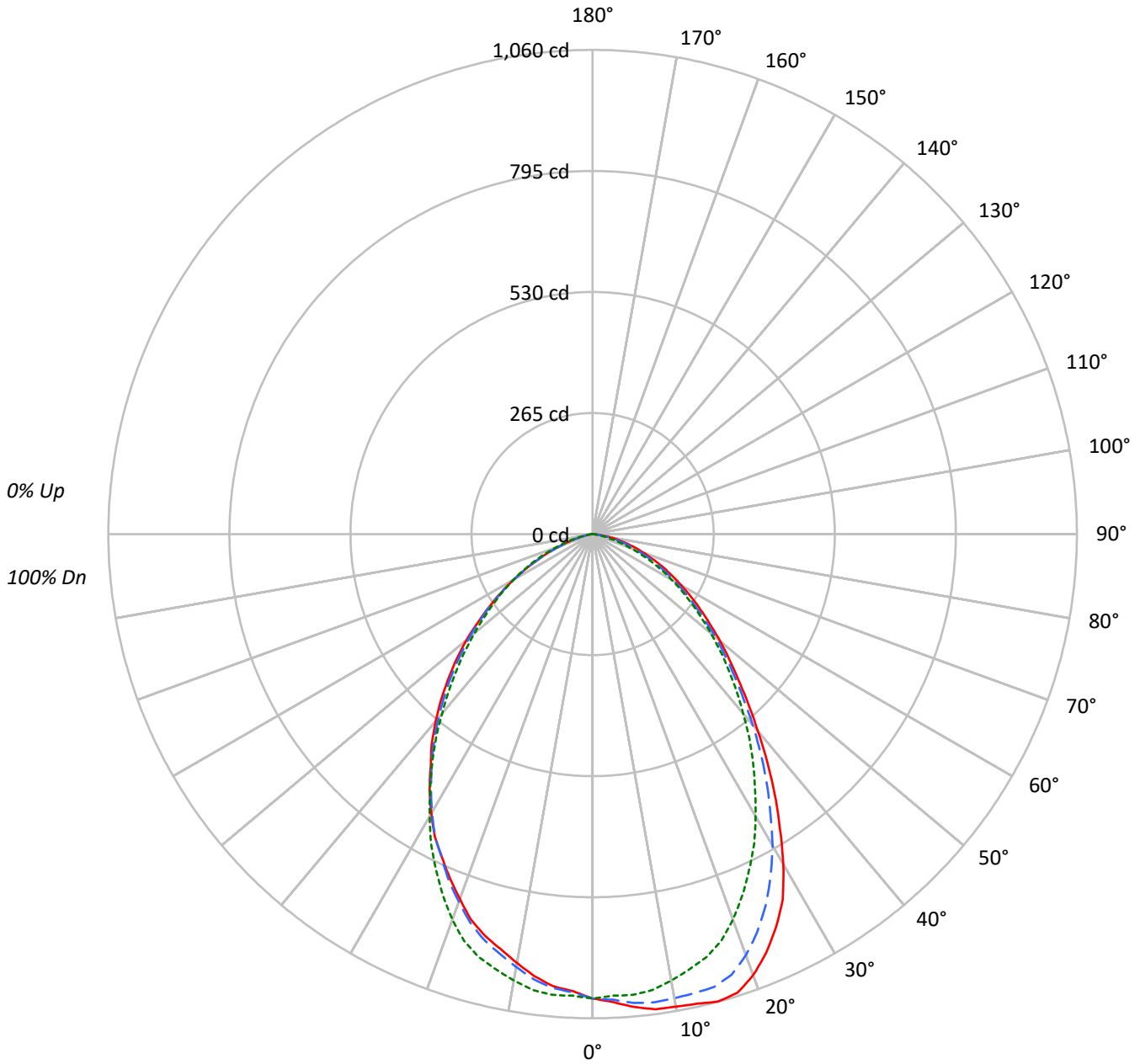
Lumens per Lamp: N/A  
Luminaire Lumens: 1937.5 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35					35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

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

	0°	90°	180°
0°	125393	125393	125393
5°	128670	125389	123037
10°	131586	124309	119412
15°	135295	122538	116255
20°	134911	117847	111546
25°	129238	110334	106210
30°	118884	101608	100539
35°	104591	92229	92981
40°	90475	82553	85999
45°	78636	73368	77747
50°	69791	64687	69062
55°	61912	56772	59202
60°	55135	49215	49215
65°	49033	40919	38321
70°	42339	30979	27336
75°	35505	20445	16823
80°	26921	9873	8950
85°	14152	3538	3538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.3	5.0
10°-20°	272.9	14.1
20°-30°	384.9	19.9
30°-40°	397.6	20.5
40°-50°	337.1	17.4
50°-60°	245.2	12.7
60°-70°	143.3	7.4
70°-80°	53.3	2.7
80°-90°	6.9	0.4
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°	754.1	38.9
0°-40°	1151.7	59.4
0°-60°	1734.0	89.5
0°-90°	1937.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1017	1017	1017	1017	1017	
5°	1039	1030	1013	998	994	100
15°	1060	1027	960	919	910	298
25°	950	896	811	782	780	434
35°	695	664	612	614	618	434
45°	451	438	421	436	446	351
55°	288	274	264	273	275	259
65°	168	154	140	131	131	167
75°	74	62	43	34	35	80
85°	10	6	2	2	2	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1016.6	1016.6	1016.6	1016.6	1016.6	1016.6	1016.6	1016.6	1016.6
2.5°	1025.4	1022.9	1020.3	1016.6	1011.5	1007.7	1003.9	1001.4	1001.4
5°	1039.2	1035.5	1030.4	1021.6	1012.7	1005.1	997.6	993.7	993.7
7.5°	1049.4	1044.3	1034.2	1021.6	1006.4	995.1	983.7	978.6	976.1
10°	1050.6	1045.6	1031.7	1012.7	992.5	974.9	962.2	954.7	953.4
12.5°	1053.1	1046.8	1029.2	1002.7	976.1	954.7	940.8	933.2	930.6
15°	1059.5	1050.6	1026.6	992.5	959.6	934.5	919.3	913.0	910.4
17.5°	1053.1	1040.5	1011.5	971.1	934.5	906.7	891.6	885.2	885.2
20°	1027.8	1015.3	981.2	937.0	897.8	871.4	856.1	852.4	849.8
22.5°	992.5	978.6	942.0	895.3	856.1	832.2	822.0	817.1	815.7
25°	949.6	935.7	896.5	848.6	810.7	790.5	781.6	781.6	780.4
27.5°	901.6	883.9	843.5	801.8	765.2	750.1	746.3	746.3	747.5
30°	834.7	822.0	787.9	747.5	713.4	703.4	703.4	705.9	705.9
32.5°	762.8	753.8	723.6	688.2	661.7	655.4	657.9	662.9	664.2
35°	694.6	684.4	664.2	632.7	612.5	609.9	613.7	617.5	617.5
37.5°	627.6	617.5	603.6	578.4	563.1	564.5	569.5	574.5	578.4
40°	561.9	554.3	544.3	524.1	512.7	517.8	524.1	529.0	534.1
42.5°	503.9	496.3	488.7	473.5	465.9	472.3	479.8	484.9	490.0
45°	450.8	445.7	438.2	425.5	420.6	426.8	435.7	440.8	445.7
47.5°	405.3	402.8	392.7	381.4	378.8	385.1	392.7	399.0	402.8
50°	363.7	359.9	351.0	339.7	337.1	347.3	352.4	356.1	359.9
52.5°	323.2	319.5	309.3	299.3	299.3	306.9	310.6	311.9	315.7
55°	287.9	284.2	274.0	266.4	264.0	270.3	272.8	272.8	275.3
57.5°	255.0	251.3	241.2	232.3	231.1	234.8	234.8	234.8	236.2
60°	223.5	219.7	209.7	202.1	199.5	200.7	199.5	198.3	199.5
62.5°	194.4	190.7	180.5	171.7	169.2	169.2	165.4	164.2	165.4
65°	168.0	161.7	154.1	145.2	140.2	136.4	131.3	131.3	131.3
67.5°	141.5	136.4	127.6	118.7	112.3	106.1	98.4	101.0	102.3
70°	117.4	113.7	103.5	94.7	85.9	78.2	72.0	74.5	75.8
72.5°	96.0	90.9	82.1	72.0	64.4	54.3	50.5	53.1	53.1
75°	74.5	69.4	61.9	51.8	42.9	34.1	34.1	35.3	35.3
77.5°	55.5	50.5	42.9	34.1	26.5	20.2	21.5	21.5	21.5
80°	37.9	34.1	27.8	20.2	13.9	11.4	11.4	11.4	12.6
82.5°	21.5	19.0	15.1	10.0	6.3	6.3	6.3	6.3	6.3
85°	10.0	7.6	6.3	3.8	2.5	2.5	2.5	2.5	2.5
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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