

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: P580200

Luminaire Tested: **HCC4S25D010BZ-HM40525927-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S25D010BZ-HM40525927-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

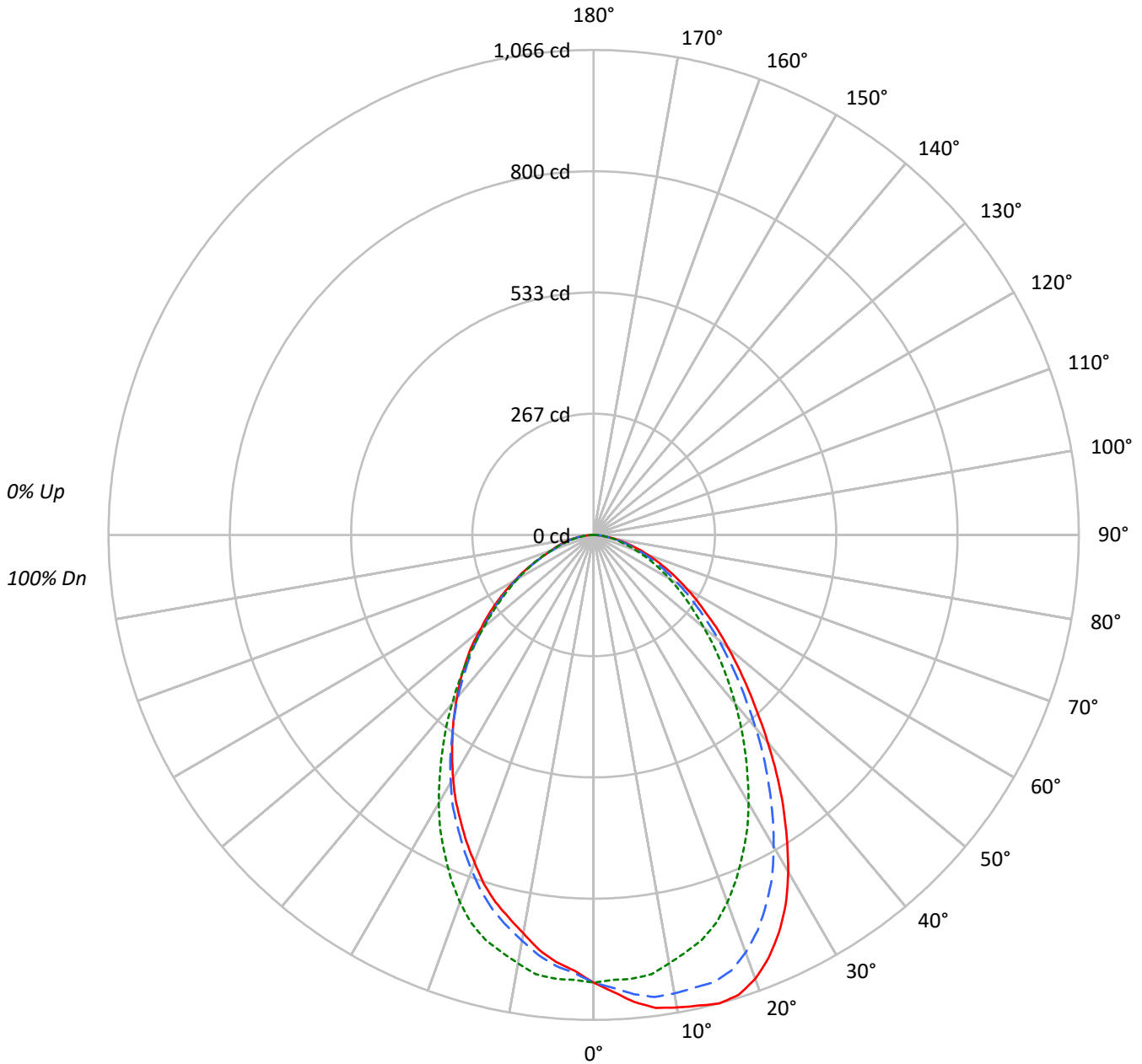
Lumens per Lamp: N/A  
Luminaire Lumens: 1908.5 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

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

	0°	90°	180°
0°	121372	121372	121372
5°	127630	121229	116685
10°	132112	119775	111383
15°	136150	117596	106627
20°	136315	112767	100494
25°	131170	105393	94220
30°	121804	96979	87992
35°	109199	87320	81417
40°	95805	77900	75259
45°	83747	68972	69426
50°	73936	60350	62538
55°	65181	53504	56235
60°	58268	47365	49240
65°	51601	41649	41649
70°	45116	35559	35559
75°	38507	30072	33741
80°	30473	26921	30473
85°	19672	23210	28588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	4.9
10°-20°	262.6	13.8
20°-30°	367.8	19.3
30°-40°	379.0	19.9
40°-50°	322.7	16.9
50°-60°	239.1	12.5
60°-70°	150.0	7.9
70°-80°	74.5	3.9
80°-90°	19.6	1.0
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°	723.6	37.9
0°-40°	1102.6	57.8
0°-60°	1664.3	87.2
0°-90°	1908.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	984	984	984	984	984	
5°	1031	1013	979	951	942	99
15°	1066	1018	921	854	835	300
25°	964	897	774	707	692	441
35°	725	671	580	542	541	452
45°	480	447	395	388	398	373
55°	303	279	249	254	262	274
65°	177	159	143	140	143	176
75°	81	72	63	68	71	86
85°	14	14	16	19	20	18
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°	984.0	984.0	984.0	984.0	984.0	984.0	984.0	984.0	984.0
2.5°	1005.6	1001.8	996.7	987.9	979.1	971.5	963.8	960.1	958.9
5°	1030.8	1023.2	1013.2	996.7	979.1	963.8	951.2	945.0	942.4
7.5°	1048.5	1040.9	1024.5	999.3	974.0	951.2	931.0	922.2	919.7
10°	1054.8	1046.0	1023.2	989.1	956.3	928.5	905.8	894.4	889.3
12.5°	1059.9	1048.5	1019.5	979.1	938.7	904.4	880.5	865.4	861.5
15°	1066.2	1053.6	1018.2	968.9	920.9	880.5	854.0	840.1	835.0
17.5°	1059.9	1046.0	1004.2	948.7	894.4	850.1	821.1	808.5	803.4
20°	1038.5	1023.2	976.5	917.1	859.1	813.6	784.5	771.9	765.6
22.5°	1005.6	989.1	941.1	878.0	818.6	774.4	746.6	734.0	730.1
25°	963.8	947.5	896.9	832.5	774.4	731.5	707.4	696.0	692.3
27.5°	914.6	898.2	848.9	785.8	730.1	689.7	670.7	659.4	656.9
30°	855.2	838.8	790.8	732.7	680.9	643.0	627.8	619.0	617.8
32.5°	789.5	775.6	731.5	678.4	629.1	597.6	586.2	579.9	578.6
35°	725.2	709.9	670.7	622.8	579.9	552.1	541.9	540.7	540.7
37.5°	659.4	644.3	612.7	568.5	531.9	506.6	502.7	504.1	504.1
40°	595.0	581.1	553.3	516.6	483.8	464.9	463.6	466.2	467.4
42.5°	534.4	523.0	497.8	466.2	438.4	423.1	424.5	429.5	433.3
45°	480.1	469.9	447.2	419.4	395.4	384.1	387.8	394.1	398.0
47.5°	430.8	421.9	400.5	375.2	355.0	347.4	352.5	360.0	365.1
50°	385.3	377.8	357.6	331.0	314.5	309.5	315.8	323.3	325.9
52.5°	344.9	337.3	315.8	293.1	280.4	278.0	284.3	290.6	294.3
55°	303.1	296.8	279.2	259.0	248.8	247.6	253.9	259.0	261.5
57.5°	269.0	262.7	246.3	228.6	219.8	218.6	224.9	228.6	229.9
60°	236.2	229.9	214.7	198.4	192.0	192.0	195.8	198.4	199.6
62.5°	205.9	199.6	185.7	171.8	166.8	166.8	166.8	168.0	171.8
65°	176.8	171.8	159.2	146.5	142.7	140.2	140.2	140.2	142.7
67.5°	150.4	145.3	135.1	123.9	120.0	116.2	114.9	117.5	117.5
70°	125.1	121.3	111.2	102.3	98.6	94.7	93.5	98.6	98.6
72.5°	102.3	98.6	92.2	83.3	79.6	78.4	80.8	83.3	84.7
75°	80.8	77.1	72.0	66.9	63.1	64.5	68.2	69.4	70.8
77.5°	60.6	59.4	54.3	50.6	50.6	51.8	54.3	56.9	58.1
80°	42.9	41.7	39.2	36.6	37.9	40.4	41.7	44.3	42.9
82.5°	26.5	26.5	25.3	25.3	26.5	29.0	30.4	31.6	32.9
85°	13.9	13.9	13.9	15.1	16.4	17.7	19.0	20.2	20.2
87.5°	3.8	5.1	5.1	6.3	7.6	7.6	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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

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