

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: P582782

Luminaire Tested: **HCC6S50D010BZ-HM64560927-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S50D010BZ-HM64560927-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

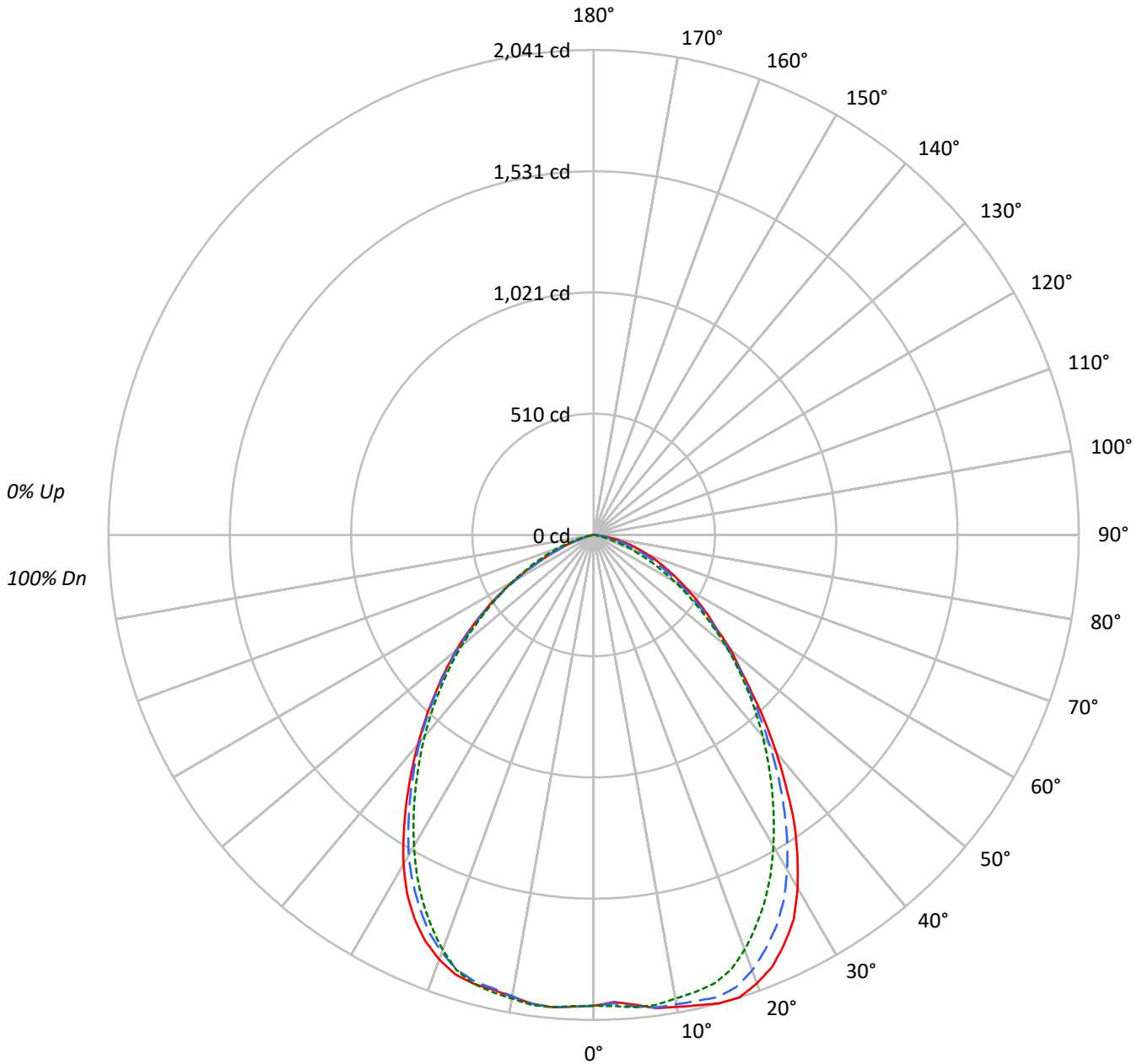
Lumens per Lamp: N/A  
Luminaire Lumens: 4000.6 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68					68			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60					60			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53					53			
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47					47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	59	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°	108632	108632	108632
5°	109195	109790	109790
10°	112256	110307	109862
15°	115812	110943	110943
20°	117167	108399	110907
25°	114823	102974	107849
30°	108612	95692	101307
35°	98297	87509	91825
40°	85503	79163	82240
45°	73062	70565	73062
50°	64117	61832	64348
55°	55941	52089	54144
60°	49459	43275	42694
65°	43896	34128	29264
70°	38724	24091	17647
75°	33000	13662	8536
80°	24561	4262	2526
85°	13523	1698	1698



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	4.8
10°-20°	556.1	13.9
20°-30°	812.3	20.3
30°-40°	851.9	21.3
40°-50°	717.7	17.9
50°-60°	502.8	12.6
60°-70°	269.6	6.7
70°-80°	90.4	2.3
80°-90°	9.8	0.2
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°	1558.5	39.0
0°-40°	2410.3	60.2
0°-60°	3630.8	90.8
0°-90°	4000.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1982	1982	1982	1982	1982	
5°	1984	1992	1995	1995	1995	191
15°	2041	2014	1955	1944	1955	576
25°	1898	1818	1702	1732	1783	870
35°	1469	1394	1308	1345	1372	912
45°	942	926	910	934	942	734
55°	585	566	545	556	566	527
65°	338	309	263	218	226	338
75°	156	121	64	40	40	165
85°	22	11	3	3	3	30
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°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	1968.1	1968.1	1973.6	1978.9	1984.3	1984.3	1987.0	1989.6	1987.0
5°	1984.3	1984.3	1992.3	1995.1	1995.1	1992.3	1995.1	1995.1	1995.1
7.5°	2008.4	2003.1	2005.8	2000.4	1995.1	1992.3	1989.6	1989.6	1989.6
10°	2016.6	2011.1	2005.8	1995.1	1981.6	1973.6	1970.9	1973.6	1973.6
12.5°	2027.3	2021.9	2008.4	1987.0	1970.9	1957.5	1954.8	1960.1	1960.1
15°	2040.6	2035.3	2013.8	1978.9	1954.8	1941.3	1944.0	1949.4	1954.8
17.5°	2040.6	2029.9	1995.1	1949.4	1919.8	1906.5	1917.1	1930.6	1938.6
20°	2008.4	1997.8	1949.4	1893.0	1858.1	1850.0	1868.8	1893.0	1901.1
22.5°	1965.5	1944.0	1887.6	1820.5	1783.0	1783.0	1809.8	1839.3	1850.0
25°	1898.3	1882.3	1817.8	1740.0	1702.4	1699.7	1731.9	1772.2	1783.0
27.5°	1823.2	1801.7	1731.9	1651.4	1611.1	1613.7	1648.7	1688.9	1699.7
30°	1715.8	1688.9	1627.2	1549.4	1511.7	1522.4	1557.4	1586.9	1600.4
32.5°	1594.9	1570.8	1514.4	1441.9	1409.6	1420.4	1449.9	1476.8	1487.6
35°	1468.8	1441.9	1393.6	1329.1	1307.6	1318.4	1345.3	1366.8	1372.1
37.5°	1326.5	1307.6	1272.8	1221.7	1205.6	1219.0	1240.5	1254.0	1259.3
40°	1194.8	1178.8	1149.2	1111.7	1106.2	1117.0	1138.5	1146.5	1149.2
42.5°	1066.0	1052.5	1033.7	1006.9	1006.9	1017.7	1036.4	1041.9	1044.5
45°	942.4	934.4	926.4	904.9	910.2	923.7	934.4	942.4	942.4
47.5°	835.1	837.8	827.1	810.9	816.3	829.7	837.8	845.8	845.8
50°	751.8	743.8	733.0	716.9	725.0	735.8	746.5	751.8	754.5
52.5°	655.2	652.5	644.5	625.6	631.0	636.3	647.1	655.2	657.8
55°	585.3	577.3	566.5	545.0	545.0	550.5	555.8	561.2	566.5
57.5°	518.2	510.2	494.0	469.9	467.2	467.2	464.5	469.9	478.0
60°	451.1	448.4	424.2	402.7	394.7	386.7	375.9	378.6	389.4
62.5°	392.0	386.7	365.2	338.4	322.2	308.8	295.4	292.7	303.4
65°	338.4	332.9	308.8	281.9	263.1	238.9	217.5	217.5	225.6
67.5°	289.9	279.3	257.8	228.3	204.1	174.6	153.1	158.4	161.1
70°	241.6	233.6	209.4	179.9	150.3	120.8	107.4	110.1	110.1
72.5°	198.6	188.0	163.8	134.3	104.8	77.8	72.5	69.8	69.8
75°	155.8	145.0	120.8	91.3	64.5	45.7	40.3	40.3	40.3
77.5°	112.8	104.8	83.3	56.3	35.0	21.5	18.8	16.1	16.1
80°	77.8	69.8	51.0	29.5	13.5	8.0	8.0	8.0	8.0
82.5°	45.7	37.6	24.2	13.5	5.3	2.7	2.7	2.7	2.7
85°	21.5	16.1	10.7	5.3	2.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
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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Scaled Data Report



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

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