

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: P582494

Luminaire Tested: **HCC6S40D010SL-HM63040927-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582494  
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: HCC6S40D010SL-HM63040927-61RWWC  
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**

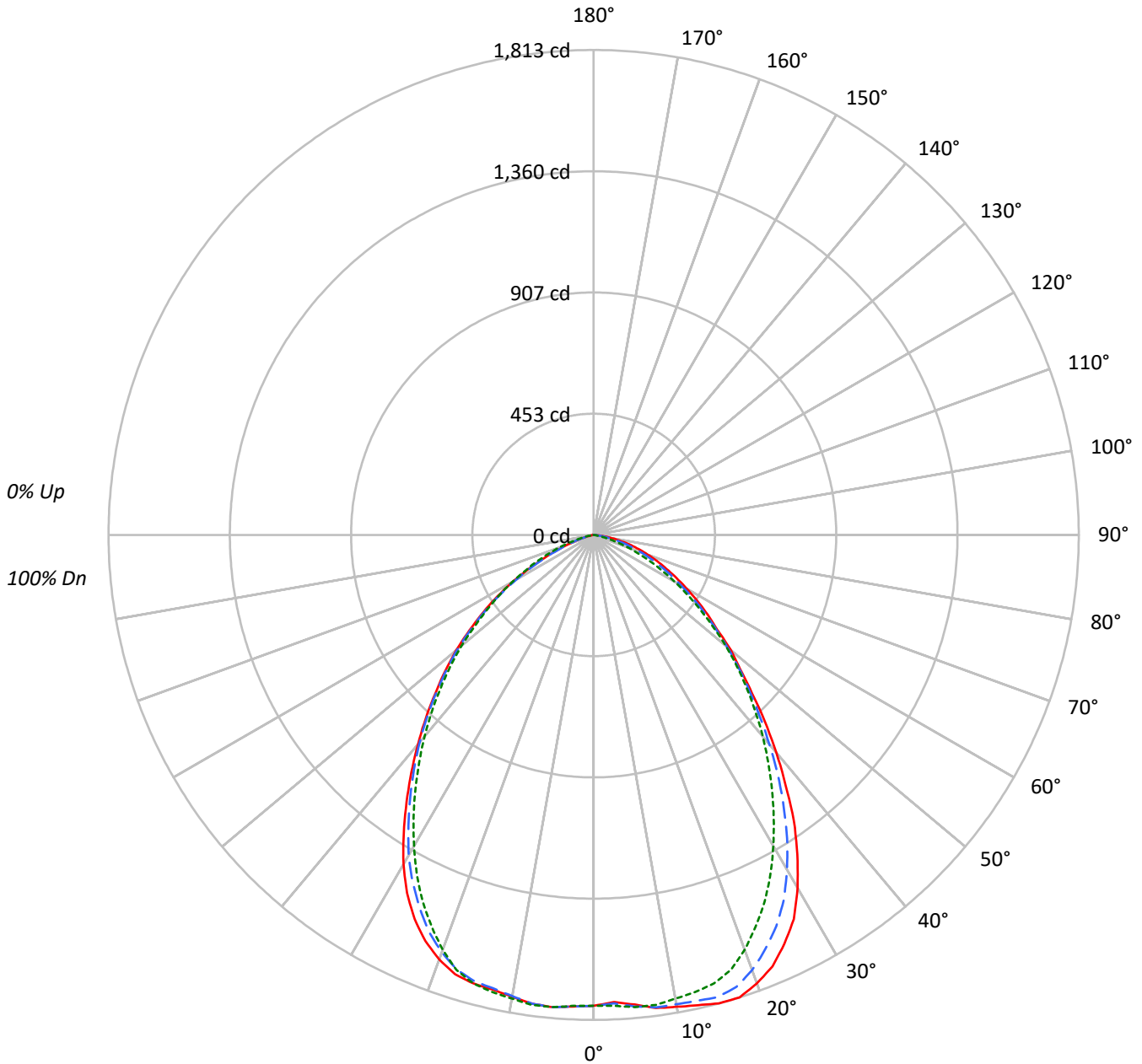
Lumens per Lamp: N/A  
Luminaire Lumens: 3553.4 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	96489	96489	96489
5°	96984	97518	97518
10°	99703	97977	97582
15°	102872	98536	98536
20°	104070	96276	98510
25°	101994	91463	95788
30°	96471	84994	89982
35°	87308	77731	81566
40°	75949	70325	73051
45°	64906	62681	64906
50°	56953	54915	57158
55°	49690	46278	48094
60°	43933	38440	37914
65°	38980	30315	25995
70°	34397	21414	15660
75°	29314	12115	7562
80°	21815	3757	2241
85°	12014	1510	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.8	4.8
10°-20°	494.0	13.9
20°-30°	721.5	20.3
30°-40°	756.6	21.3
40°-50°	637.4	17.9
50°-60°	446.6	12.6
60°-70°	239.4	6.7
70°-80°	80.3	2.3
80°-90°	8.7	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°	1384.3	39.0
0°-40°	2140.9	60.2
0°-60°	3224.9	90.8
0°-90°	3553.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3553.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1760	1760	1760	1760	1760	
5°	1762	1770	1772	1772	1772	169
15°	1813	1789	1736	1727	1736	511
25°	1686	1615	1512	1538	1584	772
35°	1305	1238	1162	1195	1219	810
45°	837	823	808	830	837	652
55°	520	503	484	494	503	468
65°	300	274	234	193	200	300
75°	138	107	57	36	36	147
85°	19	10	2	2	2	26
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°	1760.1	1760.1	1760.1	1760.1	1760.1	1760.1	1760.1	1760.1	1760.1
2.5°	1748.2	1748.2	1753.0	1757.7	1762.4	1762.4	1764.8	1767.2	1764.8
5°	1762.4	1762.4	1769.7	1772.1	1772.1	1769.7	1772.1	1772.1	1772.1
7.5°	1783.9	1779.2	1781.6	1776.8	1772.1	1769.7	1767.2	1767.2	1767.2
10°	1791.1	1786.3	1781.6	1772.1	1760.1	1753.0	1750.6	1753.0	1753.0
12.5°	1800.7	1795.8	1783.9	1764.8	1750.6	1738.6	1736.2	1741.1	1741.1
15°	1812.6	1807.8	1788.7	1757.7	1736.2	1724.3	1726.7	1731.5	1736.2
17.5°	1812.6	1803.1	1772.1	1731.5	1705.2	1693.3	1702.8	1714.8	1722.0
20°	1783.9	1774.5	1731.5	1681.3	1650.3	1643.2	1660.0	1681.3	1688.6
22.5°	1745.8	1726.7	1676.6	1617.0	1583.6	1583.6	1607.5	1633.7	1643.2
25°	1686.2	1671.8	1614.6	1545.5	1512.1	1509.7	1538.3	1574.1	1583.6
27.5°	1619.3	1600.3	1538.3	1466.7	1431.0	1433.4	1464.4	1500.1	1509.7
30°	1524.0	1500.1	1445.2	1376.1	1342.7	1352.2	1383.2	1409.5	1421.5
32.5°	1416.6	1395.2	1345.1	1280.7	1252.1	1261.6	1287.9	1311.7	1321.2
35°	1304.6	1280.7	1237.7	1180.5	1161.5	1171.0	1194.9	1214.0	1218.8
37.5°	1178.1	1161.5	1130.5	1085.1	1070.9	1082.8	1101.9	1113.8	1118.5
40°	1061.3	1047.0	1020.8	987.4	982.7	992.2	1011.3	1018.4	1020.8
42.5°	946.8	934.9	918.2	894.4	894.4	903.9	920.5	925.4	927.8
45°	837.2	829.9	822.8	803.7	808.5	820.4	829.9	837.2	837.2
47.5°	741.7	744.0	734.6	720.3	725.1	736.9	744.0	751.3	751.3
50°	667.8	660.7	651.1	636.8	643.9	653.4	663.1	667.8	670.2
52.5°	581.9	579.6	572.4	555.7	560.4	565.2	574.8	581.9	584.3
55°	519.9	512.8	503.2	484.2	484.2	489.0	493.7	498.5	503.2
57.5°	460.3	453.1	438.8	417.3	415.0	415.0	412.6	417.3	424.6
60°	400.7	398.3	376.8	357.7	350.6	343.5	333.8	336.2	345.8
62.5°	348.2	343.5	324.3	300.5	286.2	274.2	262.3	260.0	269.5
65°	300.5	295.7	274.2	250.5	233.7	212.2	193.2	193.2	200.4
67.5°	257.6	248.0	229.0	202.7	181.2	155.0	136.0	140.7	143.1
70°	214.6	207.5	186.0	159.7	133.6	107.4	95.4	97.7	97.7
72.5°	176.5	167.0	145.5	119.2	93.0	69.1	64.4	62.0	62.0
75°	138.4	128.7	107.4	81.1	57.2	40.5	35.7	35.7	35.7
77.5°	100.1	93.0	74.0	50.1	31.0	19.1	16.8	14.2	14.2
80°	69.1	62.0	45.4	26.2	11.9	7.1	7.1	7.1	7.1
82.5°	40.5	33.4	21.5	11.9	4.7	2.4	2.4	2.4	2.4
85°	19.1	14.2	9.5	4.7	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	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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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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