

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: P582449

Luminaire Tested: **HCC6S40D010BZ-HM63040830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S40D010BZ-HM63040830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

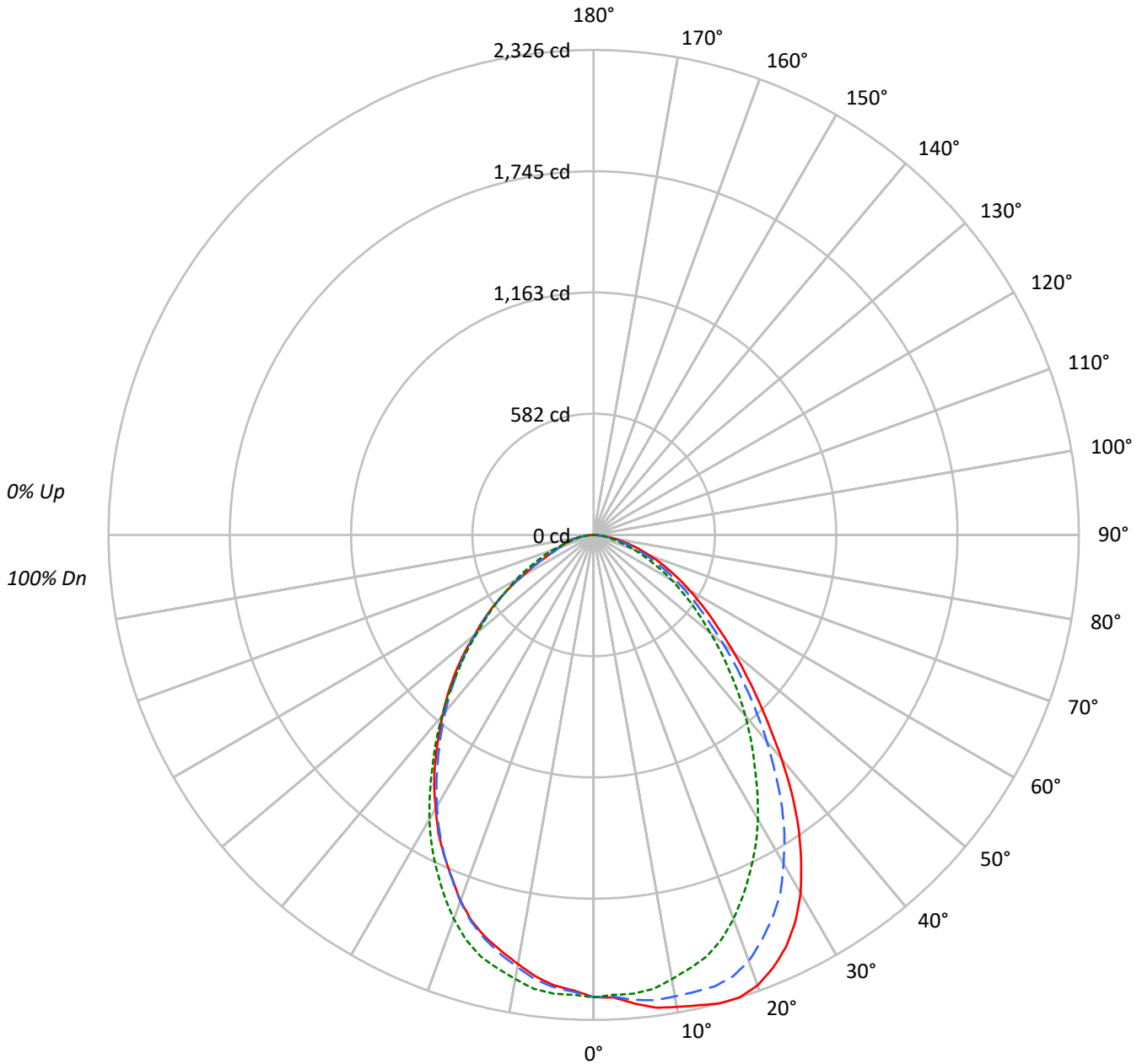
Lumens per Lamp: N/A
Luminaire Lumens: 4342.1 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: P582449
CATALOG NUMBER: HCC6S40D010BZ-HM63040830-61WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P582449

CATALOG NUMBER: HCC6S40D010BZ-HM63040830-61WWWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	121547	121547	121547
5°	124174	121511	119348
10°	127976	120394	116342
15°	132027	118786	113463
20°	134120	114332	108854
25°	131911	107547	102599
30°	125589	99699	95869
35°	114532	90005	88579
40°	100152	80859	80422
45°	86187	71155	72798
50°	74923	61994	63290
55°	65431	54421	55004
60°	58120	47156	43165
65°	51860	39680	33000
70°	45649	32538	27681
75°	39142	25671	26307
80°	31570	21972	25824
85°	21008	19058	22895



TEST NUMBER: P582449
 CATALOG NUMBER: HCC6S40D010BZ-HM63040830-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	4.8
10°-20°	597.6	13.8
20°-30°	853.1	19.6
30°-40°	893.6	20.6
40°-50°	752.4	17.3
50°-60°	535.5	12.3
60°-70°	313.4	7.2
70°-80°	148.3	3.4
80°-90°	38.2	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°	1660.7	38.2
0°-40°	2554.3	58.8
0°-60°	3842.2	88.5
0°-90°	4342.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4342.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2217	2217	2217	2217	2217	
5°	2256	2238	2208	2178	2169	217
15°	2326	2242	2093	2008	1999	657
25°	2181	2026	1778	1693	1696	998
35°	1711	1569	1345	1300	1324	1063
45°	1112	1030	918	921	939	863
55°	685	627	569	569	576	617
65°	400	354	306	258	254	399
75°	185	154	121	118	124	198
85°	33	27	30	36	36	43
90°	0	0	0	0	0	



TEST NUMBER: P582449

CATALOG NUMBER: HCC6S40D010BZ-HM63040830-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2
2.5°	2220.3	2220.3	2217.2	2214.2	2208.1	2199.0	2193.0	2186.9	2186.9
5°	2256.5	2250.6	2238.5	2223.3	2208.1	2189.9	2177.8	2168.8	2168.8
7.5°	2286.9	2274.7	2250.6	2223.3	2196.0	2171.7	2150.6	2138.5	2135.5
10°	2299.0	2283.8	2247.6	2205.1	2162.8	2129.4	2105.1	2090.0	2090.0
12.5°	2311.2	2292.9	2244.5	2183.9	2129.4	2084.0	2059.8	2047.6	2044.6
15°	2326.3	2302.1	2241.5	2165.8	2093.0	2041.5	2008.2	1999.2	1999.2
17.5°	2326.3	2296.0	2220.3	2126.4	2035.5	1978.0	1947.6	1938.5	1941.6
20°	2299.0	2265.6	2174.8	2059.8	1959.8	1899.2	1868.9	1862.8	1865.9
22.5°	2247.6	2208.1	2105.1	1981.0	1871.9	1808.3	1781.0	1781.0	1778.0
25°	2180.8	2138.5	2026.4	1896.2	1778.0	1714.4	1693.2	1696.2	1696.2
27.5°	2093.0	2050.6	1938.5	1799.2	1681.1	1617.5	1602.3	1608.4	1611.4
30°	1984.0	1938.5	1820.5	1684.1	1575.0	1511.4	1502.3	1511.4	1514.5
32.5°	1850.7	1817.5	1702.3	1563.0	1460.0	1405.4	1402.5	1411.5	1423.6
35°	1711.4	1675.0	1569.1	1441.8	1344.9	1299.5	1299.5	1314.6	1323.6
37.5°	1560.0	1523.6	1426.6	1320.6	1238.8	1196.5	1202.5	1217.7	1220.7
40°	1399.5	1372.2	1290.4	1199.5	1129.9	1096.5	1105.6	1120.8	1123.8
42.5°	1247.9	1223.8	1157.0	1075.2	1023.8	999.5	1011.7	1029.9	1035.9
45°	1111.7	1084.3	1029.9	960.2	917.8	905.6	920.8	932.9	939.0
47.5°	987.4	963.3	917.8	854.2	823.8	817.8	832.9	839.0	845.1
50°	878.5	854.2	808.7	751.2	726.9	726.9	739.0	745.1	742.1
52.5°	772.4	751.2	708.8	660.3	645.1	645.1	654.2	657.3	663.3
55°	684.6	663.3	627.1	581.5	569.4	563.3	569.4	569.4	575.5
57.5°	602.8	584.6	551.3	508.9	493.7	487.6	484.6	481.6	487.6
60°	530.1	514.9	478.5	442.3	430.1	415.0	402.8	390.7	393.7
62.5°	463.5	448.3	415.0	378.7	366.6	345.3	330.1	315.0	321.0
65°	399.8	384.6	354.4	324.1	305.9	281.7	257.5	248.4	254.4
67.5°	342.3	330.1	299.8	269.6	254.4	227.1	203.0	203.0	206.0
70°	284.8	272.6	248.4	221.1	203.0	178.7	169.6	172.7	172.7
72.5°	233.2	224.1	200.0	175.7	157.5	142.3	142.3	145.4	148.4
75°	184.8	178.7	154.5	133.2	121.2	112.1	118.2	121.2	124.2
77.5°	142.3	133.2	115.1	100.0	90.9	93.9	100.0	103.0	106.0
80°	100.0	96.9	81.8	72.7	69.6	72.7	78.7	81.8	81.8
82.5°	63.6	60.5	51.4	48.4	48.4	51.4	57.5	57.5	57.5
85°	33.4	30.3	27.3	27.3	30.3	33.4	36.4	36.4	36.4
87.5°	12.1	9.1	12.1	12.1	15.2	15.2	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)