

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: P582485

Luminaire Tested: **HCC6W40D010SL-HM63040840-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582485  
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: HCC6W40D010SL-HM63040840-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

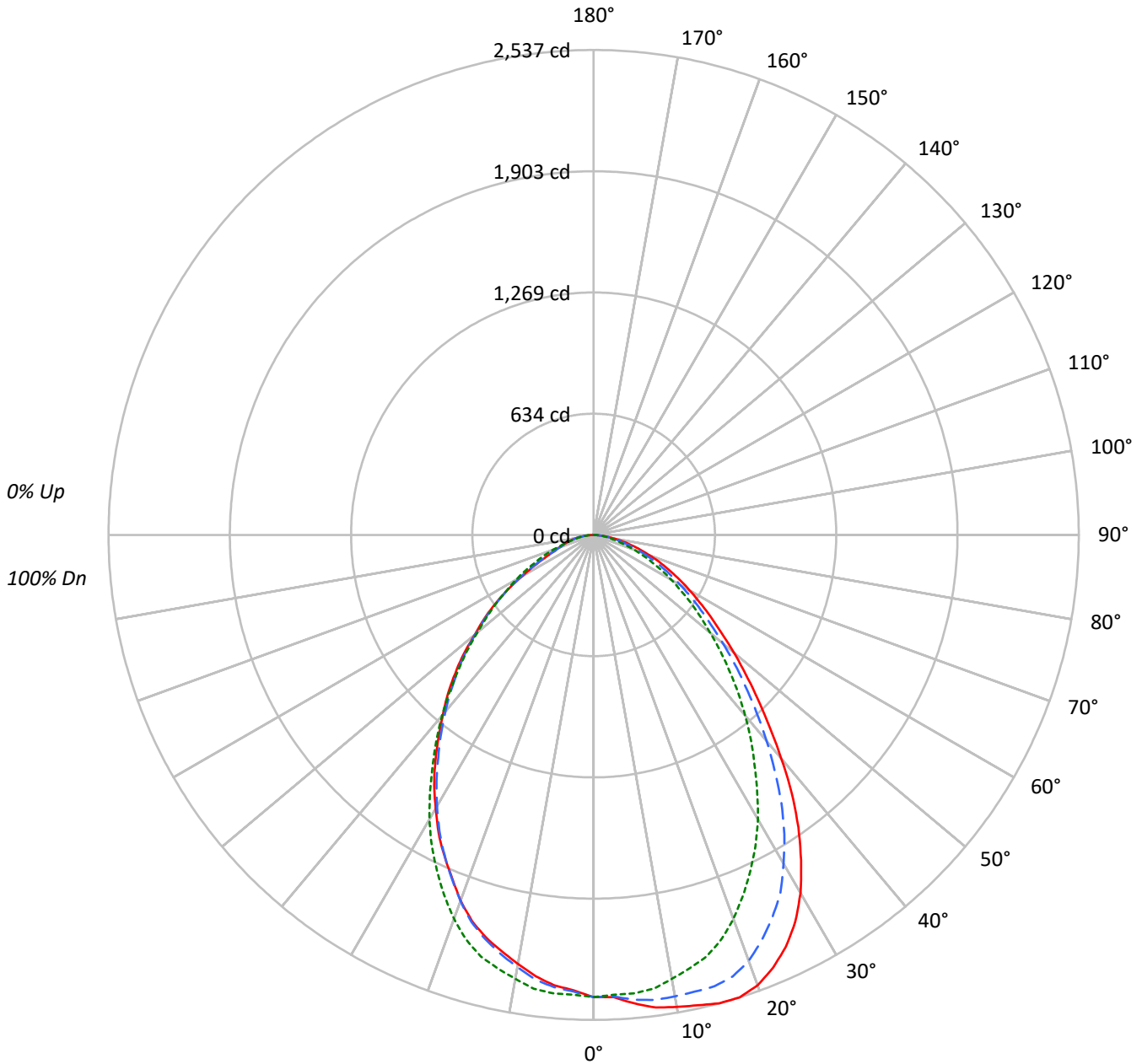
Lumens per Lamp: N/A  
Luminaire Lumens: 4734.6 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): 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: P582485  
CATALOG NUMBER: HCC6W40D010SL-HM63040840-61WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P582485

CATALOG NUMBER: HCC6W40D010SL-HM63040840-61WWWB

**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	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°	132533	132533	132533
5°	135406	132495	130128
10°	139543	131266	126851
15°	143962	129530	123712
20°	146243	124663	118695
25°	143839	117267	111871
30°	136939	108719	104535
35°	124878	98143	96583
40°	109190	88158	87693
45°	93979	77582	79373
50°	81695	67605	69013
55°	71338	59343	59984
60°	63372	51421	47069
65°	56543	43273	35983
70°	49768	35471	30165
75°	42658	28001	28700
80°	34379	23993	28160
85°	22832	20757	24908



TEST NUMBER: P582485  
 CATALOG NUMBER: HCC6W40D010SL-HM63040840-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.9	4.8
10°-20°	651.6	13.8
20°-30°	930.2	19.6
30°-40°	974.4	20.6
40°-50°	820.4	17.3
50°-60°	583.9	12.3
60°-70°	341.8	7.2
70°-80°	161.7	3.4
80°-90°	41.6	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°	1810.8	38.2
0°-40°	2785.2	58.8
0°-60°	4189.5	88.5
0°-90°	4734.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4734.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2418	2418	2418	2418	2418	
5°	2461	2441	2408	2375	2365	236
15°	2537	2444	2282	2190	2180	716
25°	2378	2210	1939	1846	1850	1088
35°	1866	1711	1466	1417	1443	1159
45°	1212	1123	1001	1004	1024	941
55°	746	684	621	621	628	673
65°	436	386	334	281	277	435
75°	201	168	132	129	136	216
85°	36	30	33	40	40	47
90°	0	0	0	0	0	

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



TEST NUMBER: P582485

CATALOG NUMBER: HCC6W40D010SL-HM63040840-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2417.6	2417.6	2417.6	2417.6	2417.6	2417.6	2417.6	2417.6	2417.6
2.5°	2420.9	2420.9	2417.6	2414.3	2407.7	2397.8	2391.2	2384.6	2384.6
5°	2460.6	2454.0	2440.7	2424.2	2407.7	2387.9	2374.7	2364.7	2364.7
7.5°	2493.6	2480.4	2454.0	2424.2	2394.5	2368.1	2344.9	2331.7	2328.4
10°	2506.8	2490.3	2450.7	2404.4	2358.1	2321.8	2295.5	2278.8	2278.8
12.5°	2519.9	2500.2	2447.3	2381.3	2321.8	2272.2	2245.9	2232.7	2229.4
15°	2536.6	2510.1	2444.0	2361.4	2282.3	2226.1	2189.7	2179.8	2179.8
17.5°	2536.6	2503.5	2420.9	2318.5	2219.5	2156.7	2123.7	2113.7	2117.1
20°	2506.8	2470.5	2371.4	2245.9	2136.9	2070.8	2037.9	2031.1	2034.6
22.5°	2450.7	2407.7	2295.5	2160.0	2041.2	1971.8	1942.0	1942.0	1938.7
25°	2378.0	2331.7	2209.6	2067.5	1938.7	1869.4	1846.2	1849.5	1849.5
27.5°	2282.3	2236.0	2113.7	1961.9	1833.0	1763.6	1747.1	1753.7	1757.0
30°	2163.3	2113.7	1985.0	1836.3	1717.5	1648.1	1638.2	1648.1	1651.4
32.5°	2017.9	1981.7	1856.1	1704.3	1591.9	1532.4	1529.1	1539.1	1552.3
35°	1866.0	1826.4	1710.9	1572.1	1466.5	1416.9	1416.9	1433.4	1443.2
37.5°	1700.9	1661.3	1555.6	1440.0	1350.8	1304.6	1311.2	1327.7	1331.0
40°	1525.8	1496.1	1407.0	1307.9	1231.9	1195.5	1205.6	1222.1	1225.4
42.5°	1360.7	1334.3	1261.6	1172.5	1116.3	1089.9	1103.1	1123.0	1129.6
45°	1212.2	1182.4	1123.0	1047.0	1000.7	987.5	1004.0	1017.2	1023.8
47.5°	1076.7	1050.3	1000.7	931.3	898.4	891.8	908.3	914.9	921.5
50°	957.9	931.3	881.9	819.1	792.7	792.7	805.9	812.5	809.2
52.5°	842.2	819.1	772.8	720.0	703.4	703.4	713.4	716.7	723.3
55°	746.4	723.3	683.6	634.2	620.9	614.3	620.9	620.9	627.6
57.5°	657.3	637.5	601.1	554.9	538.3	531.7	528.4	525.1	531.7
60°	578.0	561.5	521.8	482.2	469.0	452.4	439.2	426.0	429.3
62.5°	505.3	488.8	452.4	412.8	399.7	376.6	360.0	343.5	350.1
65°	435.9	419.4	386.5	353.4	333.6	307.2	280.7	270.8	277.4
67.5°	373.1	360.0	327.0	294.0	277.4	247.7	221.3	221.3	224.6
70°	310.5	297.3	270.8	241.1	221.3	194.8	184.9	188.2	188.2
72.5°	254.3	244.4	218.0	191.5	171.7	155.2	155.2	158.5	161.8
75°	201.4	194.8	168.4	145.4	132.2	122.1	128.9	132.2	135.5
77.5°	155.2	145.4	125.6	108.9	99.1	102.4	108.9	112.2	115.5
80°	108.9	105.7	89.2	79.3	76.0	79.3	85.9	89.2	89.2
82.5°	69.4	66.1	56.2	52.9	52.9	56.2	62.8	62.8	62.8
85°	36.3	33.0	29.7	29.7	33.0	36.3	39.6	39.6	39.6
87.5°	13.2	9.9	13.2	13.2	16.5	16.5	16.5	16.5	16.5
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)