

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: P582459

Luminaire Tested: **HCC6S40D010SL-HM63040835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S40D010SL-HM63040835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

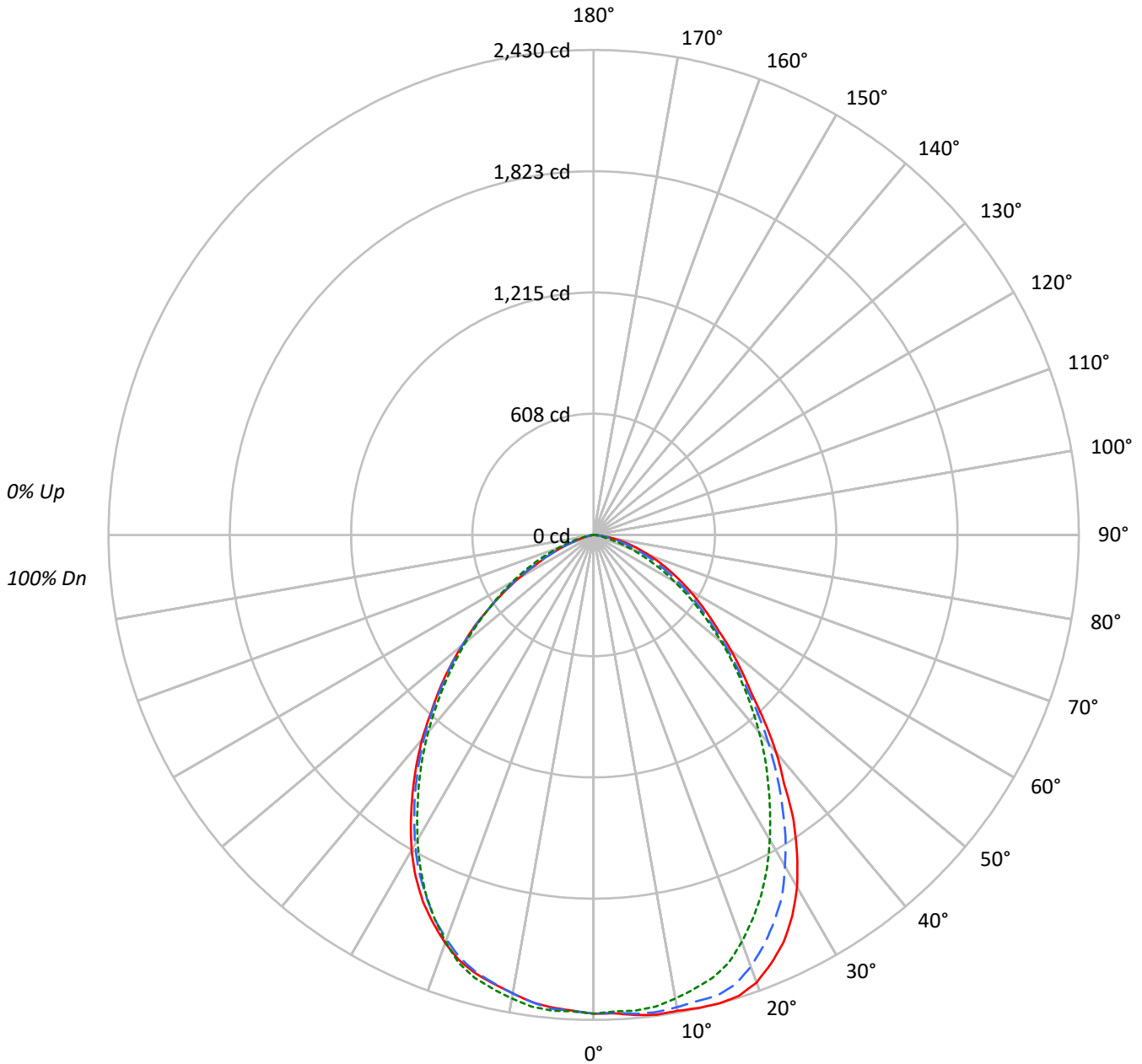
Lumens per Lamp: N/A
Luminaire Lumens: 4701.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582459
CATALOG NUMBER: HCC6S40D010SL-HM63040835-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P582459

CATALOG NUMBER: HCC6S40D010SL-HM63040835-61RWWH

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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
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	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	131519	131519	131519
5°	132885	131675	130811
10°	134778	131271	129868
15°	137941	130449	129201
20°	139225	126571	126933
25°	136175	120200	122481
30°	128976	111656	115435
35°	116781	102058	105846
40°	101705	92259	95629
45°	86296	81667	84590
50°	76424	71332	73209
55°	67314	61006	60700
60°	60335	51366	47233
65°	53845	41198	33856
70°	47380	29733	21157
75°	39947	17983	11988
80°	30780	7956	4956
85°	17863	2013	2013



TEST NUMBER: P582459

CATALOG NUMBER: HCC6S40D010SL-HM63040835-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	4.8
10°-20°	654.5	13.9
20°-30°	946.1	20.1
30°-40°	995.5	21.2
40°-50°	836.9	17.8
50°-60°	587.4	12.5
60°-70°	323.1	6.9
70°-80°	114.7	2.4
80°-90°	15.0	0.3
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°	1828.4	38.9
0°-40°	2823.9	60.1
0°-60°	4248.1	90.4
0°-90°	4701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2399	2399	2399	2399	2399	
5°	2415	2408	2393	2383	2377	231
15°	2430	2390	2298	2270	2276	686
25°	2251	2138	1987	1990	2025	1030
35°	1745	1644	1525	1556	1582	1082
45°	1113	1082	1053	1078	1091	873
55°	704	667	638	638	635	634
65°	415	371	318	261	261	413
75°	189	151	85	57	57	203
85°	28	16	3	3	3	39
90°	0	0	0	0	0	

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



TEST NUMBER: P582459

CATALOG NUMBER: HCC6S40D010SL-HM63040835-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2399.1	2399.1	2399.1	2399.1	2399.1	2399.1	2399.1	2399.1	2399.1
2.5°	2399.1	2399.1	2396.0	2396.0	2389.6	2389.6	2386.5	2386.5	2386.5
5°	2414.8	2414.8	2408.5	2399.1	2392.8	2383.4	2383.4	2380.3	2377.1
7.5°	2424.2	2421.2	2411.7	2399.1	2383.4	2367.6	2361.4	2364.6	2361.4
10°	2421.2	2414.8	2402.3	2377.1	2358.2	2336.2	2333.0	2329.9	2333.0
12.5°	2427.4	2418.0	2392.8	2361.4	2329.9	2304.8	2301.7	2301.7	2304.8
15°	2430.5	2421.2	2389.6	2342.5	2298.5	2273.3	2270.1	2273.3	2276.5
17.5°	2421.2	2408.5	2361.4	2298.5	2248.2	2223.0	2223.0	2229.2	2235.6
20°	2386.5	2367.6	2301.7	2226.2	2169.6	2150.8	2157.0	2169.6	2175.8
22.5°	2323.7	2301.7	2226.2	2141.3	2081.5	2065.8	2081.5	2097.2	2103.5
25°	2251.3	2226.2	2138.1	2050.1	1987.2	1968.3	1990.4	2015.4	2024.9
27.5°	2153.8	2125.6	2043.8	1943.2	1880.2	1870.9	1896.1	1924.3	1930.6
30°	2037.5	2006.1	1914.9	1820.5	1763.9	1760.9	1789.1	1814.3	1823.6
32.5°	1896.1	1867.7	1789.1	1694.8	1644.5	1644.5	1672.8	1694.8	1704.1
35°	1745.0	1713.6	1644.5	1565.9	1525.0	1528.1	1556.4	1572.1	1581.6
37.5°	1565.9	1556.4	1503.0	1436.9	1408.7	1414.9	1436.9	1449.6	1458.9
40°	1421.2	1396.0	1361.5	1308.1	1289.2	1295.4	1317.4	1330.1	1336.3
42.5°	1264.0	1248.3	1219.9	1182.2	1169.7	1179.1	1197.9	1207.4	1204.2
45°	1113.1	1109.9	1081.6	1059.7	1053.4	1065.9	1078.5	1087.9	1091.1
47.5°	1003.0	990.4	965.2	949.5	943.3	955.9	968.4	974.7	974.7
50°	896.1	883.6	858.4	842.7	836.4	848.9	858.4	864.7	858.4
52.5°	789.2	776.6	754.6	735.7	732.6	738.9	742.1	745.2	751.4
55°	704.3	691.7	666.6	644.6	638.3	641.4	638.3	638.3	635.1
57.5°	622.6	610.0	584.8	559.7	550.3	547.1	537.6	534.6	531.4
60°	550.3	534.6	509.4	481.0	468.5	456.0	440.2	430.8	430.8
62.5°	481.0	465.3	437.1	411.9	393.1	371.0	345.8	333.3	333.3
65°	415.1	402.4	371.0	342.7	317.6	289.3	261.0	254.7	261.0
67.5°	352.2	339.6	308.1	279.9	248.4	213.8	188.6	188.6	194.9
70°	295.6	282.9	254.7	220.1	185.5	150.9	132.0	132.0	132.0
72.5°	242.2	229.5	198.1	166.6	132.0	97.5	88.0	91.1	88.0
75°	188.6	179.3	150.9	116.3	84.9	59.8	56.6	53.4	56.6
77.5°	141.5	132.0	107.0	75.4	47.2	34.6	31.4	31.4	31.4
80°	97.5	88.0	69.1	44.1	25.2	15.7	15.7	15.7	15.7
82.5°	59.8	50.3	37.7	22.0	9.5	9.5	9.5	9.5	9.5
85°	28.4	22.0	15.7	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	6.3	6.3	3.2	3.2	0.0	3.2	3.2	0.0	0.0
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)