

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: P582521

Luminaire Tested: **HCC6W40D010SL-HM63040930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582521
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-HM63040930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

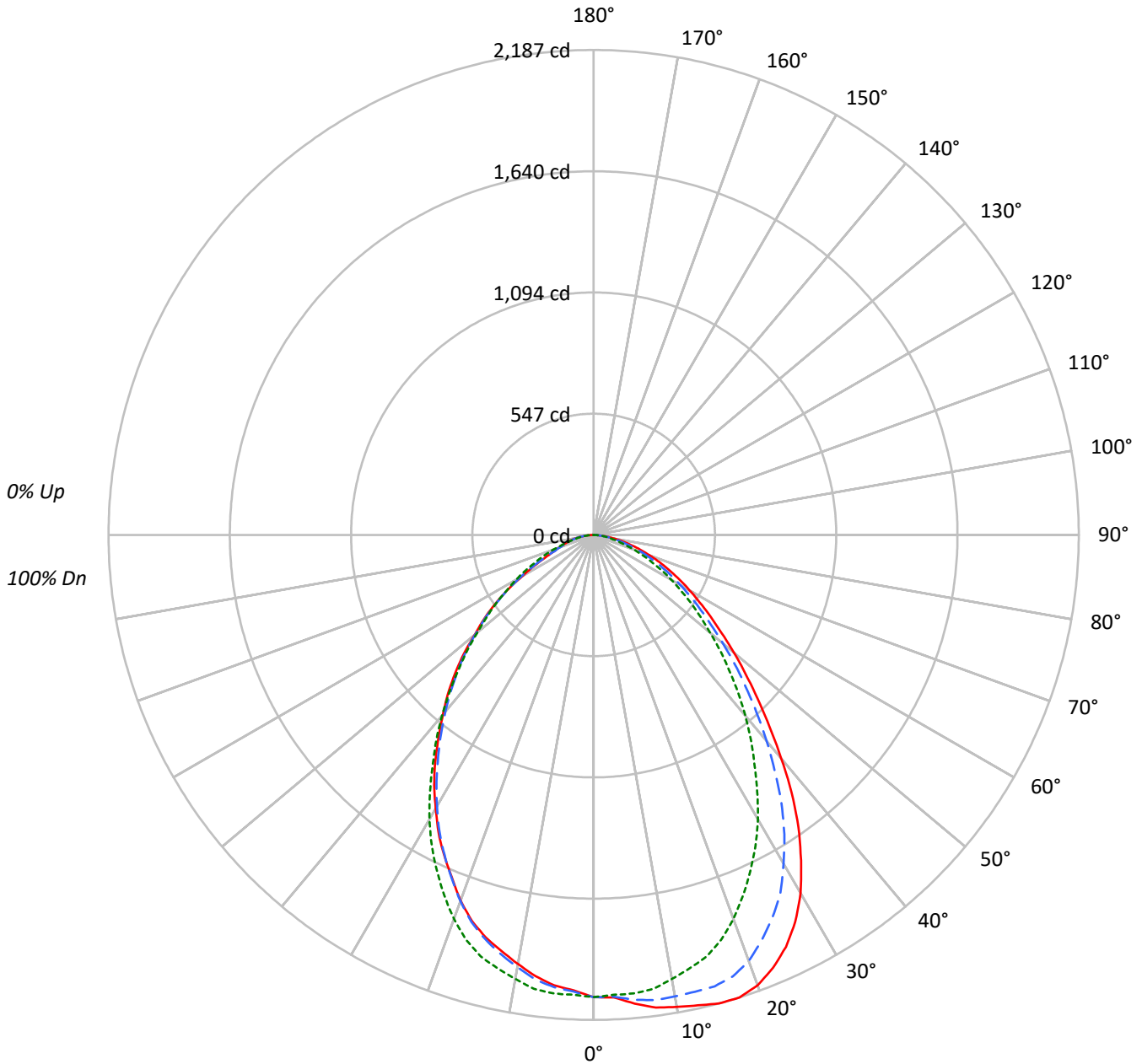
Lumens per Lamp: N/A
Luminaire Lumens: 4082.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582521
CATALOG NUMBER: HCC6W40D010SL-HM63040930-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582521

CATALOG NUMBER: HCC6W40D010SL-HM63040930-61WWWB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	114267	114267	114267
5°	116745	114230	112200
10°	120311	113174	109372
15°	124115	111675	106663
20°	126087	107483	102331
25°	124017	101111	96459
30°	118069	93730	90121
35°	107673	84611	83272
40°	94148	76014	75599
45°	81016	66891	68441
50°	70428	58284	59495
55°	61503	51171	51716
60°	54634	44339	40589
65°	48760	37293	31015
70°	42892	30566	26030
75°	36791	24146	24718
80°	29644	20710	24277
85°	19687	17926	21511



TEST NUMBER: P582521

CATALOG NUMBER: HCC6W40D010SL-HM63040930-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	4.8
10°-20°	561.8	13.8
20°-30°	802.0	19.6
30°-40°	840.1	20.6
40°-50°	707.3	17.3
50°-60°	503.4	12.3
60°-70°	294.6	7.2
70°-80°	139.4	3.4
80°-90°	35.9	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°	1561.2	38.2
0°-40°	2401.3	58.8
0°-60°	3612.1	88.5
0°-90°	4082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4082.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2084	2084	2084	2084	2084	
5°	2122	2104	2076	2047	2039	204
15°	2187	2107	1968	1888	1879	617
25°	2050	1905	1672	1592	1595	938
35°	1609	1475	1264	1222	1244	999
45°	1045	968	863	866	883	811
55°	644	590	535	535	541	580
65°	376	333	288	242	239	375
75°	174	145	114	111	117	186
85°	31	26	28	34	34	41
90°	0	0	0	0	0	

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



TEST NUMBER: P582521

CATALOG NUMBER: HCC6W40D010SL-HM63040930-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2087.3	2087.3	2084.4	2081.5	2075.8	2067.3	2061.6	2055.9	2055.9
5°	2121.5	2115.7	2104.3	2090.1	2075.8	2058.8	2047.4	2038.9	2038.9
7.5°	2150.0	2138.5	2115.7	2090.1	2064.5	2041.7	2021.8	2010.4	2007.5
10°	2161.3	2147.1	2112.9	2073.1	2033.1	2001.8	1979.0	1964.8	1964.8
12.5°	2172.7	2155.6	2110.0	2053.2	2001.8	1959.1	1936.3	1924.9	1922.0
15°	2186.9	2164.1	2107.2	2036.0	1967.7	1919.3	1887.9	1879.4	1879.4
17.5°	2186.9	2158.4	2087.3	1998.9	1913.6	1859.4	1831.0	1822.5	1825.2
20°	2161.3	2129.9	2044.6	1936.3	1842.4	1785.4	1756.9	1751.2	1754.1
22.5°	2112.9	2075.8	1979.0	1862.3	1759.8	1699.9	1674.3	1674.3	1671.6
25°	2050.3	2010.4	1905.0	1782.6	1671.6	1611.7	1591.8	1594.7	1594.7
27.5°	1967.7	1927.9	1822.5	1691.5	1580.4	1520.5	1506.3	1512.1	1514.9
30°	1865.2	1822.5	1711.4	1583.2	1480.7	1421.0	1412.4	1421.0	1423.7
32.5°	1739.9	1708.5	1600.3	1469.4	1372.6	1321.2	1318.5	1326.9	1338.4
35°	1608.9	1574.8	1475.0	1355.4	1264.3	1221.7	1221.7	1235.9	1244.3
37.5°	1466.5	1432.3	1341.2	1241.6	1164.7	1124.8	1130.5	1144.8	1147.5
40°	1315.6	1290.0	1213.1	1127.6	1062.2	1030.8	1039.4	1053.6	1056.4
42.5°	1173.3	1150.4	1087.8	1010.9	962.5	939.7	951.1	968.1	973.8
45°	1045.0	1019.5	968.1	902.7	862.8	851.4	865.7	877.0	882.8
47.5°	928.3	905.5	862.8	803.0	774.5	768.8	783.1	788.8	794.4
50°	825.8	803.0	760.3	706.2	683.4	683.4	694.8	700.5	697.6
52.5°	726.1	706.2	666.4	620.7	606.5	606.5	615.0	618.0	623.6
55°	643.5	623.6	589.5	546.7	535.4	529.7	535.4	535.4	541.1
57.5°	566.6	549.6	518.2	478.4	464.2	458.5	455.6	452.8	458.5
60°	498.3	484.1	449.9	415.7	404.4	390.2	378.7	367.3	370.2
62.5°	435.7	421.4	390.2	356.0	344.5	324.6	310.4	296.1	301.8
65°	375.9	361.7	333.2	304.7	287.5	264.9	242.0	233.5	239.1
67.5°	321.8	310.4	281.9	253.4	239.1	213.5	190.7	190.7	193.6
70°	267.6	256.3	233.5	207.9	190.7	168.0	159.5	162.4	162.4
72.5°	219.2	210.8	188.0	165.1	148.1	133.9	133.9	136.6	139.6
75°	173.7	168.0	145.2	125.3	114.0	105.4	111.1	114.0	116.7
77.5°	133.9	125.3	108.2	93.9	85.5	88.2	93.9	96.8	99.7
80°	93.9	91.1	76.9	68.3	65.6	68.3	74.0	76.9	76.9
82.5°	59.8	57.0	48.4	45.5	45.5	48.4	54.1	54.1	54.1
85°	31.3	28.5	25.6	25.6	28.5	31.3	34.2	34.2	34.2
87.5°	11.3	8.6	11.3	11.3	14.2	14.2	14.2	14.2	14.2
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)