

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: P580483

Luminaire Tested: **HCC4W35D010SL-HM43040927-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W35D010SL-HM43040927-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

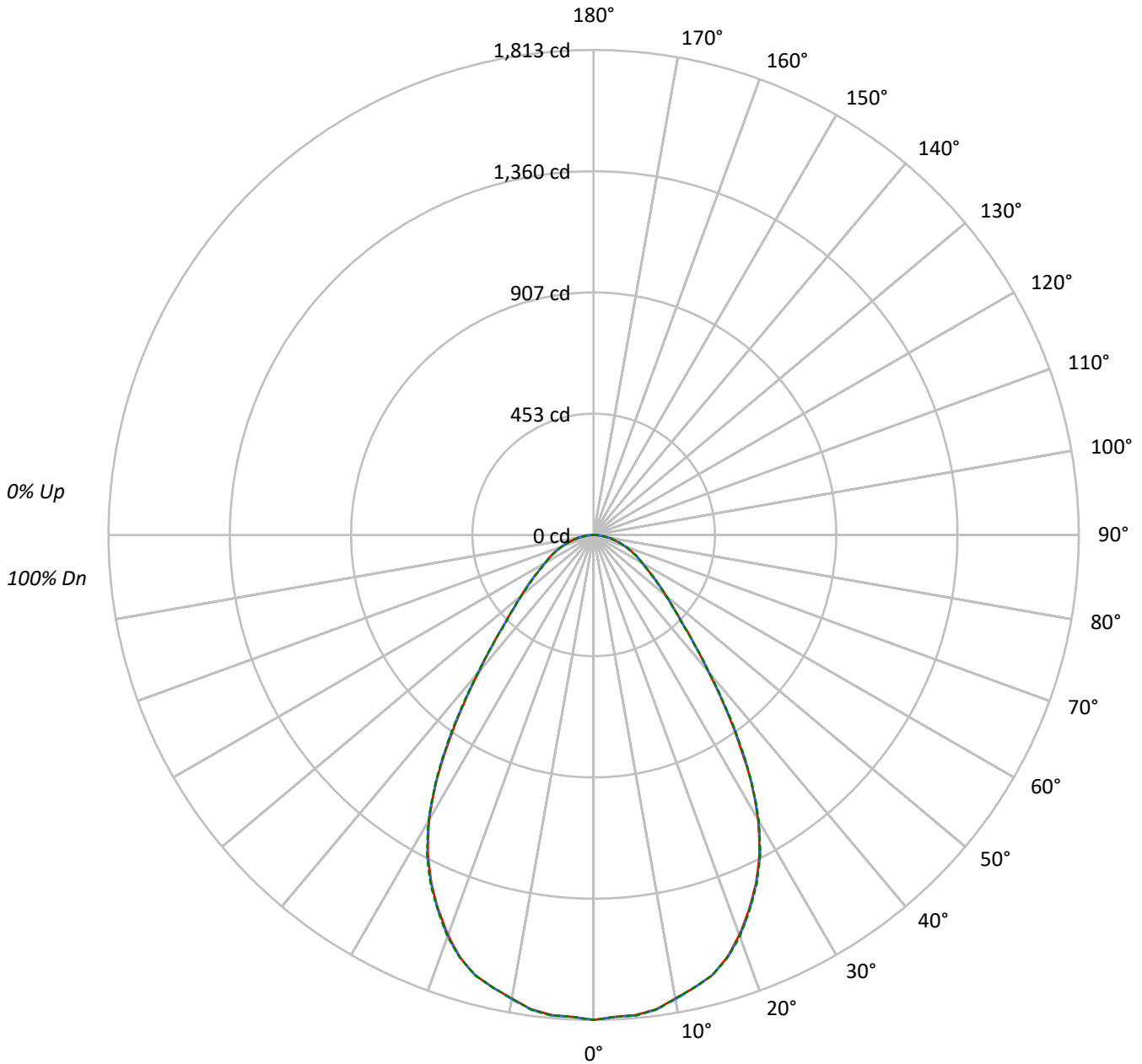
Lumens per Lamp: N/A
Luminaire Lumens: 2796.9 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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: P580483
CATALOG NUMBER: HCC4W35D010SL-HM43040927-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580483

CATALOG NUMBER: HCC4W35D010SL-HM43040927-41WDW

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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69					69			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	223601	223601	223601
5°	223044	223279	223279
10°	220462	220700	220462
15°	217825	217825	217825
20°	208890	209375	209625
25°	195381	195639	196143
30°	175057	175599	175599
35°	142130	143274	143545
40°	107269	107865	108171
45°	82177	81846	81846
50°	67699	67335	67335
55°	58106	57697	57697
60°	51855	51386	51386
65°	48741	48741	48741
70°	45368	45368	45368
75°	41128	42034	41128
80°	38641	37292	38641
85°	31843	31843	31843



TEST NUMBER: P580483
 CATALOG NUMBER: HCC4W35D010SL-HM43040927-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	6.1
10°-20°	478.0	17.1
20°-30°	656.8	23.5
30°-40°	590.5	21.1
40°-50°	373.1	13.3
50°-60°	243.6	8.7
60°-70°	165.1	5.9
70°-80°	92.9	3.3
80°-90°	26.1	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°	1305.5	46.7
0°-40°	1896.1	67.8
0°-60°	2512.8	89.8
0°-90°	2796.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2796.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1813	1813	1813	1813	1813	
5°	1801	1801	1803	1803	1803	171
15°	1706	1706	1706	1706	1706	478
25°	1436	1438	1438	1441	1441	655
35°	944	948	952	955	953	588
45°	471	469	469	469	469	374
55°	270	270	268	270	268	245
65°	167	167	167	167	167	165
75°	86	88	88	88	86	93
85°	22	22	22	22	22	26
90°	0	0	0	0	0	



TEST NUMBER: P580483

CATALOG NUMBER: HCC4W35D010SL-HM43040927-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1803.3	1803.3	1803.3	1803.3	1803.3
5°	1801.4	1801.4	1803.3	1803.3	1803.3
7.5°	1788.4	1790.2	1790.2	1790.2	1790.2
10°	1760.2	1760.2	1762.1	1762.1	1760.2
12.5°	1733.9	1733.9	1733.9	1735.8	1733.9
15°	1705.8	1705.8	1705.8	1705.8	1705.8
17.5°	1657.0	1658.9	1658.9	1658.9	1658.9
20°	1591.4	1595.1	1595.1	1597.0	1597.0
22.5°	1516.3	1518.1	1520.0	1521.9	1520.0
25°	1435.6	1437.5	1437.5	1441.2	1441.2
27.5°	1341.7	1343.6	1347.3	1347.3	1347.3
30°	1229.1	1231.0	1232.9	1232.9	1232.9
32.5°	1095.9	1095.9	1099.6	1101.5	1099.6
35°	943.9	947.6	951.5	955.2	953.3
37.5°	799.4	803.2	805.0	805.0	806.9
40°	666.2	669.9	669.9	673.7	671.8
42.5°	561.1	559.2	559.2	563.0	561.1
45°	471.1	469.2	469.2	469.2	469.2
47.5°	405.3	403.4	403.4	403.4	403.4
50°	352.8	350.9	350.9	350.9	350.9
52.5°	309.7	307.8	307.8	307.8	305.8
55°	270.2	270.2	268.3	270.2	268.3
57.5°	234.6	234.6	234.6	234.6	234.6
60°	210.2	208.3	208.3	208.3	208.3
62.5°	187.7	187.7	187.7	187.7	187.7
65°	167.0	167.0	167.0	167.0	167.0
67.5°	146.3	144.5	146.3	146.3	144.5
70°	125.8	123.9	125.8	125.8	125.8
72.5°	105.1	105.1	105.1	107.0	105.1
75°	86.3	88.2	88.2	88.2	86.3
77.5°	69.5	71.3	69.5	69.5	69.5
80°	54.4	52.5	52.5	52.5	54.4
82.5°	37.5	37.5	37.5	37.5	37.5
85°	22.5	22.5	22.5	22.5	22.5
87.5°	9.3	9.3	9.3	9.3	9.3
90°	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)