

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: P580502

Luminaire Tested: **HCC4S35D010SL-HM43040930-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S35D010SL-HM43040930-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

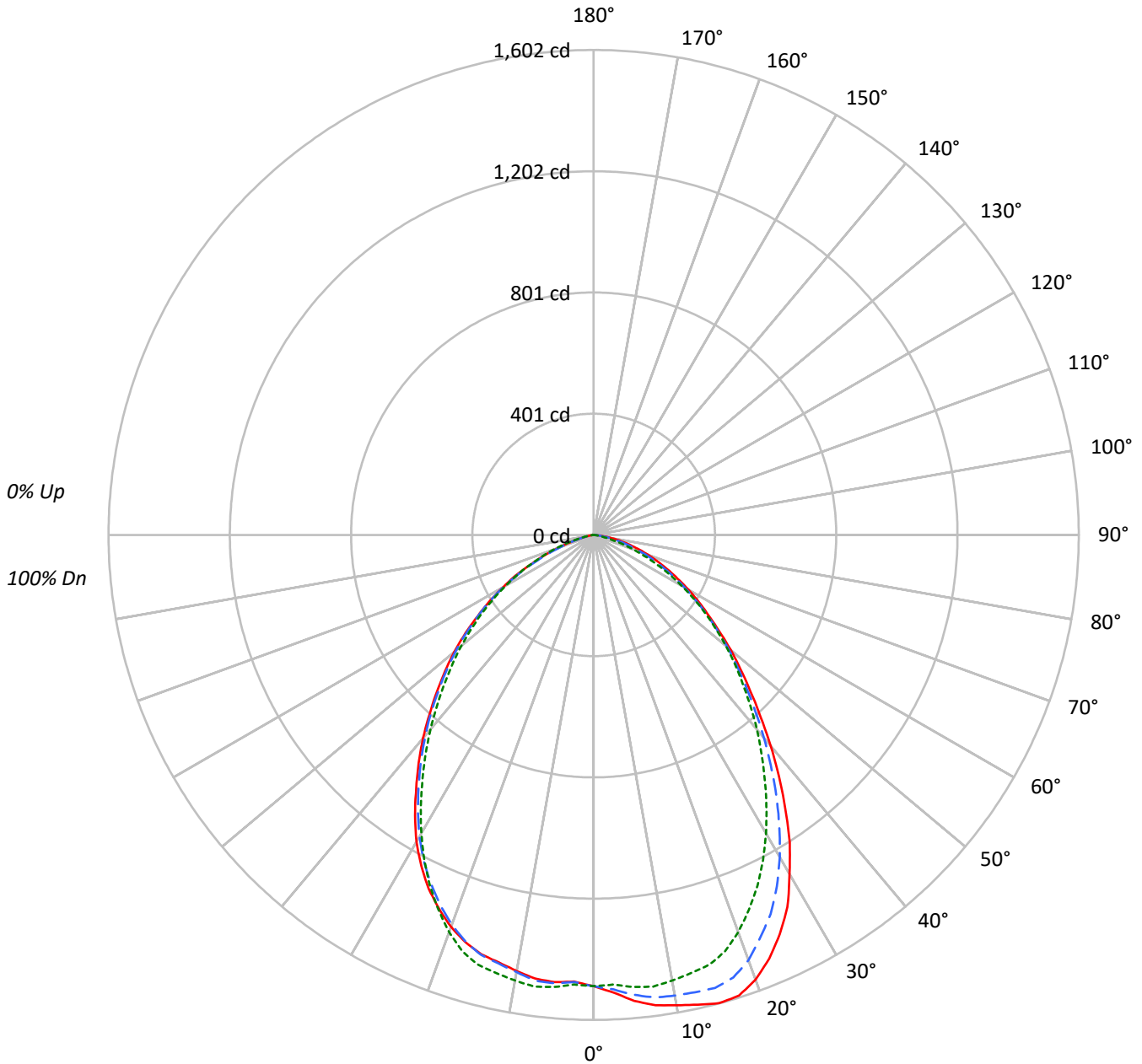
Lumens per Lamp: N/A
Luminaire Lumens: 3106.5 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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: P580502
CATALOG NUMBER: HCC4S35D010SL-HM43040930-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P580502

CATALOG NUMBER: HCC4S35D010SL-HM43040930-41RWWC

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	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	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	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	183884	183884	183884
5°	191322	185589	183583
10°	197567	187221	183176
15°	204519	187791	183156
20°	205201	183241	180865
25°	197953	174095	175470
30°	184201	162111	166697
35°	165936	148334	153800
40°	146283	134948	141099
45°	127915	121583	127566
50°	113254	109397	115193
55°	99631	96620	100513
60°	88957	82494	84985
65°	78219	67011	65844
70°	68305	49407	45044
75°	56617	29786	24019
80°	42974	11436	7174
85°	19813	2830	2830



TEST NUMBER: P580502
 CATALOG NUMBER: HCC4S35D010SL-HM43040930-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	4.6
10°-20°	419.6	13.5
20°-30°	607.7	19.6
30°-40°	641.1	20.6
40°-50°	554.9	17.9
50°-60°	411.0	13.2
60°-70°	236.9	7.6
70°-80°	82.8	2.7
80°-90°	8.7	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°	1171.1	37.7
0°-40°	1812.2	58.3
0°-60°	2778.1	89.4
0°-90°	3106.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3106.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1491	1491	1491	1491	1491	
5°	1545	1525	1499	1487	1483	148
15°	1602	1549	1471	1436	1434	450
25°	1454	1382	1279	1271	1289	666
35°	1102	1052	985	1007	1021	688
45°	733	713	697	723	731	569
55°	463	453	449	465	467	418
65°	268	252	230	218	226	268
75°	119	101	62	50	50	128
85°	14	8	2	2	2	22
90°	0	0	0	0	0	

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



TEST NUMBER: P580502

CATALOG NUMBER: HCC4S35D010SL-HM43040930-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1512.9	1508.9	1502.8	1494.8	1486.7	1480.6	1478.6	1476.6	1476.6
5°	1545.2	1537.1	1525.0	1508.9	1498.9	1492.8	1486.7	1482.7	1482.7
7.5°	1567.3	1559.2	1541.1	1519.0	1504.8	1492.8	1484.7	1478.6	1478.6
10°	1577.4	1567.3	1545.2	1517.0	1494.8	1478.6	1466.6	1462.5	1462.5
12.5°	1589.4	1577.4	1547.2	1510.9	1482.7	1462.5	1450.4	1446.5	1446.5
15°	1601.6	1587.4	1549.2	1506.8	1470.6	1446.5	1436.4	1434.3	1434.3
17.5°	1595.5	1577.4	1533.0	1482.7	1442.4	1418.3	1408.1	1408.1	1410.2
20°	1563.3	1545.2	1494.8	1438.4	1396.0	1377.9	1369.8	1373.9	1377.9
22.5°	1514.9	1492.8	1438.4	1384.0	1339.7	1323.5	1323.5	1329.6	1335.6
25°	1454.5	1434.3	1382.0	1321.5	1279.2	1267.1	1271.1	1281.2	1289.3
27.5°	1386.0	1363.9	1309.5	1253.0	1210.8	1204.7	1214.7	1228.9	1232.9
30°	1293.3	1275.2	1228.9	1174.5	1138.2	1136.1	1150.3	1160.4	1170.4
32.5°	1204.7	1184.6	1140.2	1087.8	1061.6	1063.6	1079.8	1091.9	1097.9
35°	1102.0	1083.8	1051.6	1009.2	985.1	989.1	1007.2	1019.4	1021.4
37.5°	1005.2	993.2	960.9	928.6	910.6	918.6	934.7	948.9	948.9
40°	908.5	898.5	874.2	848.1	838.1	848.1	864.2	876.3	876.3
42.5°	815.9	809.8	789.7	771.5	765.6	779.6	793.8	803.8	801.7
45°	733.3	727.2	713.2	699.0	697.0	711.2	723.2	729.3	731.3
47.5°	658.8	654.7	642.6	632.6	632.6	646.6	656.8	662.8	664.8
50°	590.2	586.3	576.2	568.1	570.1	584.3	592.2	598.3	600.3
52.5°	521.8	519.7	511.6	501.6	507.7	517.7	527.8	531.9	533.9
55°	463.3	463.3	453.3	445.2	449.3	459.3	465.3	467.4	467.4
57.5°	410.9	408.9	396.9	388.8	390.8	400.9	404.9	406.9	406.9
60°	360.6	358.6	346.5	334.4	334.4	340.5	342.5	344.5	344.5
62.5°	312.2	310.2	296.2	286.1	282.0	280.0	280.0	284.0	292.1
65°	268.0	265.9	251.8	235.7	229.6	223.6	217.6	221.7	225.6
67.5°	227.6	223.6	209.5	195.5	181.3	171.2	161.2	167.3	175.2
70°	189.4	185.3	169.3	153.1	137.0	120.8	112.8	120.8	124.9
72.5°	153.1	149.0	133.0	116.9	96.7	80.6	78.6	80.6	82.6
75°	118.8	116.9	100.7	82.6	62.5	50.4	50.4	50.4	50.4
77.5°	88.7	84.6	68.5	52.4	36.3	28.2	26.2	26.2	26.2
80°	60.5	56.4	42.3	30.2	16.1	12.1	12.1	10.1	10.1
82.5°	34.3	32.3	22.1	12.1	6.1	4.0	4.0	4.0	4.0
85°	14.0	12.1	8.1	4.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	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)