

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: P580506

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S35D010SL-HM43040930-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

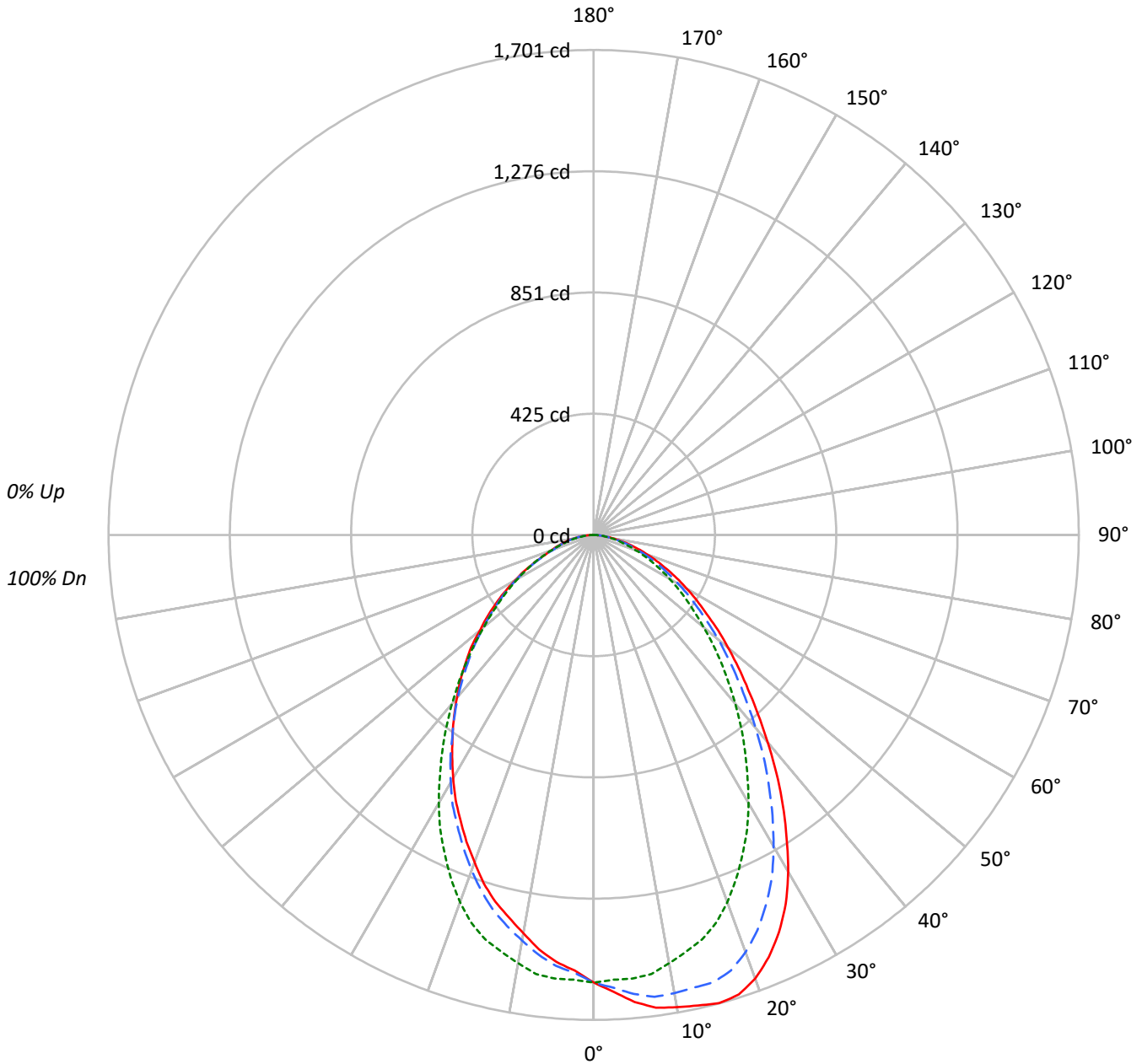
Lumens per Lamp: N/A
Luminaire Lumens: 3044.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580506
CATALOG NUMBER: HCC4S35D010SL-HM43040930-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P580506

CATALOG NUMBER: HCC4S35D010SL-HM43040930-41WWWB

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	193616	193616	193616
5°	203580	193352	186109
10°	210718	191041	177665
15°	217161	187561	170067
20°	217396	179855	160271
25°	209235	168107	150278
30°	194285	154676	140334
35°	174158	139254	129843
40°	152804	124256	120038
45°	133566	110017	110715
50°	117937	96291	99745
55°	103975	85352	89696
60°	92953	75562	78522
65°	82334	66457	66457
70°	71947	56656	56656
75°	61430	47991	53757
80°	48657	42974	48657
85°	31277	37079	45712



TEST NUMBER: P580506
 CATALOG NUMBER: HCC4S35D010SL-HM43040930-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	4.9
10°-20°	418.8	13.8
20°-30°	586.7	19.3
30°-40°	604.5	19.9
40°-50°	514.6	16.9
50°-60°	381.3	12.5
60°-70°	239.3	7.9
70°-80°	118.9	3.9
80°-90°	31.2	1.0
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°	1154.2	37.9
0°-40°	1758.7	57.8
0°-60°	2654.7	87.2
0°-90°	3044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1570	1570	1570	1570	1570	
5°	1644	1616	1562	1517	1503	158
15°	1701	1624	1469	1362	1332	478
25°	1537	1431	1235	1128	1104	703
35°	1157	1070	925	864	862	721
45°	766	713	631	618	635	594
55°	484	445	397	405	417	437
65°	282	254	228	224	228	281
75°	129	115	101	109	113	138
85°	22	22	26	30	32	28
90°	0	0	0	0	0	

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



TEST NUMBER: P580506

CATALOG NUMBER: HCC4S35D010SL-HM43040930-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7
2.5°	1603.8	1597.9	1589.8	1575.6	1561.6	1549.4	1537.4	1531.3	1529.3
5°	1644.2	1632.0	1616.0	1589.8	1561.6	1537.4	1517.3	1507.2	1503.1
7.5°	1672.4	1660.3	1634.1	1593.8	1553.5	1517.3	1485.0	1470.9	1466.8
10°	1682.4	1668.4	1632.0	1577.6	1525.3	1481.0	1444.7	1426.6	1418.5
12.5°	1690.5	1672.4	1626.1	1561.6	1497.1	1442.7	1404.4	1380.3	1374.2
15°	1700.6	1680.5	1624.1	1545.4	1468.8	1404.4	1362.1	1339.9	1331.8
17.5°	1690.5	1668.4	1601.8	1513.2	1426.6	1356.0	1309.7	1289.6	1281.5
20°	1656.2	1632.0	1557.5	1462.9	1370.2	1297.7	1251.2	1231.1	1221.0
22.5°	1603.8	1577.6	1501.1	1400.4	1305.6	1235.2	1190.8	1170.6	1164.6
25°	1537.4	1511.2	1430.6	1327.8	1235.2	1166.6	1128.4	1110.2	1104.2
27.5°	1458.8	1432.7	1354.0	1253.3	1164.6	1100.2	1069.9	1051.8	1047.8
30°	1364.1	1337.9	1261.4	1168.6	1086.0	1025.6	1001.4	987.3	985.3
32.5°	1259.3	1237.2	1166.6	1082.0	1003.4	953.0	934.9	924.8	922.8
35°	1156.6	1132.4	1069.9	993.4	924.8	880.5	864.4	862.3	862.3
37.5°	1051.8	1027.6	977.2	906.7	848.3	807.9	802.0	804.0	804.0
40°	949.0	926.9	882.6	824.1	771.7	741.5	739.5	743.5	745.5
42.5°	852.3	834.2	793.9	743.5	699.1	675.0	677.0	685.1	691.1
45°	765.7	749.6	713.3	669.0	630.7	612.6	618.5	628.7	634.7
47.5°	687.1	672.9	638.8	598.4	566.2	554.1	562.1	574.3	582.3
50°	614.6	602.5	570.2	527.9	501.8	493.7	503.8	515.8	519.8
52.5°	550.1	537.9	503.8	467.5	447.4	443.3	453.3	463.4	469.5
55°	483.5	473.5	445.3	413.1	396.9	395.0	405.0	413.1	417.1
57.5°	429.1	419.1	393.0	364.7	350.6	348.6	358.7	364.7	366.8
60°	376.8	366.8	342.5	316.3	306.3	306.3	312.4	316.3	318.3
62.5°	328.4	318.3	296.2	274.0	265.9	265.9	265.9	268.0	274.0
65°	282.1	274.0	253.9	233.7	227.7	223.7	223.7	223.7	227.7
67.5°	239.7	231.8	215.6	197.5	191.4	185.3	183.3	187.4	187.4
70°	199.5	193.4	177.4	163.2	157.1	151.1	149.2	157.1	157.1
72.5°	163.2	157.1	147.1	133.0	126.9	124.9	128.9	133.0	135.0
75°	128.9	123.0	114.9	106.8	100.7	102.7	108.8	110.8	112.8
77.5°	96.7	94.8	86.7	80.6	80.6	82.6	86.7	90.7	92.7
80°	68.5	66.5	62.5	58.4	60.5	64.5	66.5	70.5	68.5
82.5°	42.3	42.3	40.4	40.4	42.3	46.3	48.3	50.4	52.4
85°	22.1	22.1	22.1	24.2	26.2	28.2	30.2	32.3	32.3
87.5°	6.1	8.1	8.1	10.1	12.1	12.1	14.0	14.0	14.0
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)