

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: P580486

Luminaire Tested: **HCC4S35D010MB-HM43040927-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S35D010MB-HM43040927-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

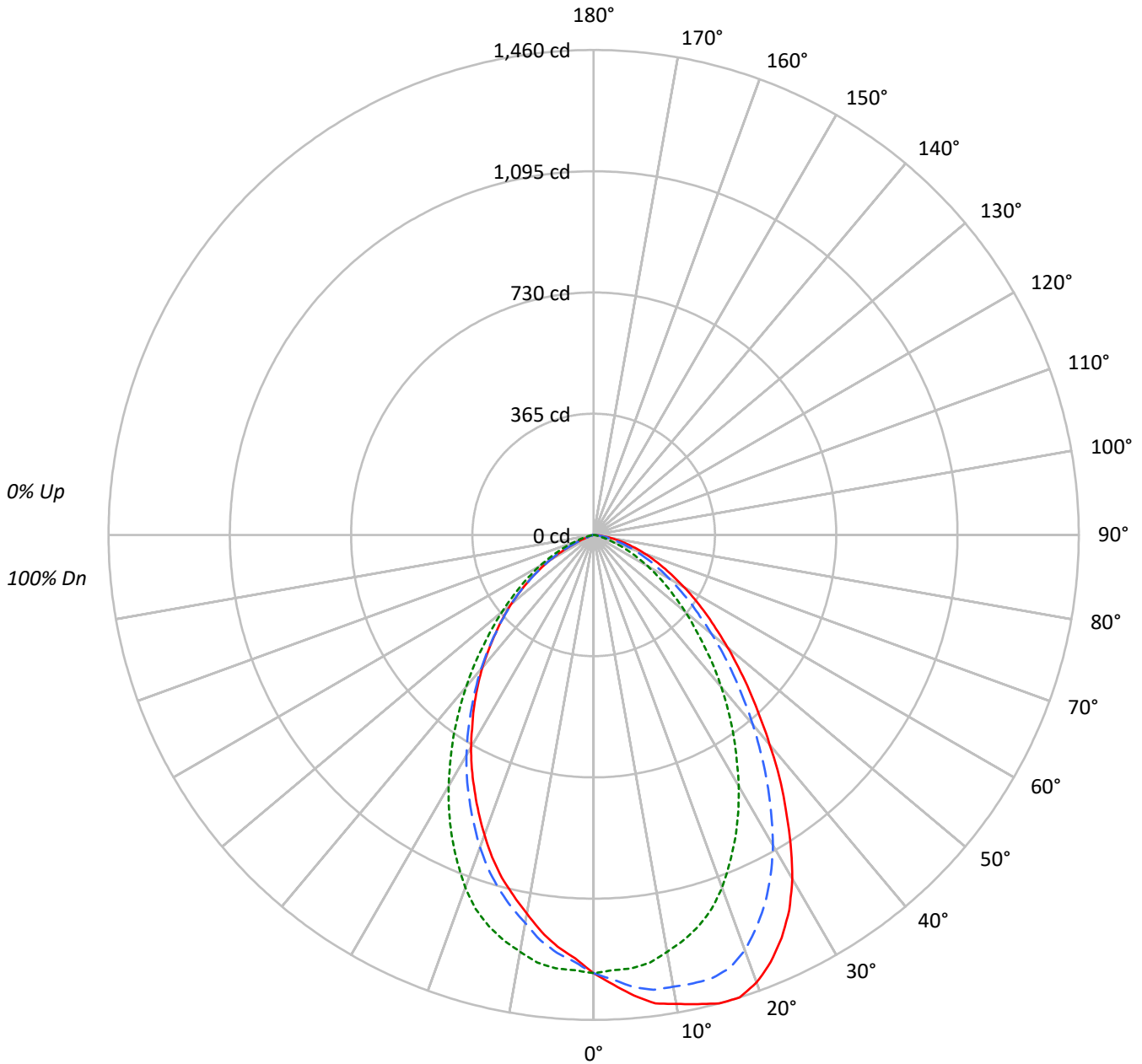
Lumens per Lamp: N/A
Luminaire Lumens: 2278.8 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580486
CATALOG NUMBER: HCC4S35D010MB-HM43040927-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580486

CATALOG NUMBER: HCC4S35D010MB-HM43040927-41WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78					78			
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61					61			
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55					55			
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49					49			
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44					44			
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40					40			
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	162718	162718	162718
5°	172402	162188	154053
10°	179581	159604	145013
15°	186437	155765	136355
20°	188203	148286	126116
25°	182098	137158	115451
30°	170258	124296	105054
35°	151752	110478	94367
40°	132661	96078	83986
45°	115565	81497	72688
50°	100839	69158	62288
55°	88363	57310	50450
60°	77313	46304	37053
65°	67391	34498	20810
70°	58892	22324	6780
75°	48324	11628	1763
80°	36013	5327	1350
85°	21370	2689	2689



TEST NUMBER: P580486
 CATALOG NUMBER: HCC4S35D010MB-HM43040927-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	5.5
10°-20°	348.5	15.3
20°-30°	481.8	21.1
30°-40°	484.5	21.3
40°-50°	390.9	17.2
50°-60°	264.3	11.6
60°-70°	134.5	5.9
70°-80°	43.1	1.9
80°-90°	6.6	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°	954.8	41.9
0°-40°	1439.3	63.2
0°-60°	2094.6	91.9
0°-90°	2278.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1319	1319	1319	1319	1319	
5°	1392	1366	1310	1263	1244	134
15°	1460	1381	1220	1103	1068	411
25°	1338	1222	1008	884	848	612
35°	1008	910	734	642	627	630
45°	662	593	467	417	417	513
55°	411	355	266	233	235	369
65°	231	188	118	77	71	231
75°	101	71	24	6	4	109
85°	15	8	2	2	2	20
90°	0	0	0	0	0	



TEST NUMBER: P580486

CATALOG NUMBER: HCC4S35D010MB-HM43040927-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
2.5°	1354.9	1347.5	1339.9	1326.8	1311.7	1296.8	1287.3	1279.9	1276.1
5°	1392.4	1383.1	1366.2	1338.0	1309.9	1283.6	1262.9	1249.9	1244.2
7.5°	1422.5	1409.4	1381.2	1341.8	1298.7	1257.3	1231.1	1212.3	1204.8
10°	1433.8	1418.7	1381.2	1328.7	1274.3	1223.6	1186.0	1167.3	1157.8
12.5°	1446.9	1430.0	1383.1	1317.4	1249.9	1189.8	1146.6	1122.2	1112.9
15°	1460.0	1437.5	1381.2	1300.5	1219.8	1150.4	1103.4	1079.0	1067.8
17.5°	1460.0	1433.8	1366.2	1272.4	1180.4	1107.3	1054.6	1026.5	1017.1
20°	1433.8	1403.8	1330.5	1227.3	1129.7	1050.9	1000.2	972.1	960.8
22.5°	1392.4	1358.7	1279.9	1172.9	1069.7	992.7	942.0	915.8	904.5
25°	1338.0	1304.3	1221.7	1111.0	1007.8	930.8	883.9	859.5	848.3
27.5°	1274.3	1236.7	1154.1	1043.4	942.0	868.9	825.7	803.2	793.8
30°	1195.4	1159.7	1079.0	970.2	872.7	805.1	765.7	745.0	737.6
32.5°	1103.4	1073.4	994.6	893.2	801.3	739.4	703.7	686.9	679.3
35°	1007.8	979.6	910.2	816.4	733.7	675.6	641.8	630.6	626.7
37.5°	917.6	893.2	825.7	739.4	664.3	613.7	583.6	576.2	572.3
40°	823.9	806.9	745.0	666.2	596.7	551.8	527.4	521.6	521.6
42.5°	739.4	720.6	666.2	594.9	533.0	487.9	471.1	465.4	467.2
45°	662.5	643.7	593.0	527.4	467.2	429.7	416.7	416.7	416.7
47.5°	591.1	574.3	527.4	459.8	410.9	380.9	367.8	367.8	369.7
50°	525.5	514.2	461.6	403.5	360.4	332.1	322.8	320.9	324.6
52.5°	463.5	450.4	403.5	350.9	309.7	287.1	277.7	275.8	277.7
55°	410.9	396.0	354.7	304.0	266.5	243.9	232.7	230.9	234.6
57.5°	360.4	349.0	305.8	260.9	225.2	202.7	193.3	189.5	191.4
60°	313.4	302.1	262.7	219.5	187.7	165.1	152.0	148.3	150.2
62.5°	270.2	260.9	223.3	182.1	150.2	129.5	116.3	107.0	110.7
65°	230.9	221.4	187.7	146.3	118.2	95.7	77.0	69.5	71.3
67.5°	197.0	185.8	153.9	116.3	88.2	63.8	43.2	39.5	39.5
70°	163.3	152.0	123.9	90.0	61.9	33.8	18.8	18.8	18.8
72.5°	131.4	122.0	95.7	67.6	39.5	15.1	7.5	7.5	7.5
75°	101.4	93.9	71.3	46.9	24.4	7.5	5.6	3.7	3.7
77.5°	75.1	67.6	50.7	31.9	15.1	3.7	3.7	3.7	3.7
80°	50.7	45.1	33.8	18.8	7.5	1.9	1.9	1.9	1.9
82.5°	30.0	26.3	18.8	9.3	3.7	1.9	1.9	1.9	1.9
85°	15.1	11.2	7.5	3.7	1.9	1.9	1.9	1.9	1.9
87.5°	3.7	1.9	1.9	1.9	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)