

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: P580179

Luminaire Tested: **HCC4S25D010BZ-HM40525840-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S25D010BZ-HM40525840-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

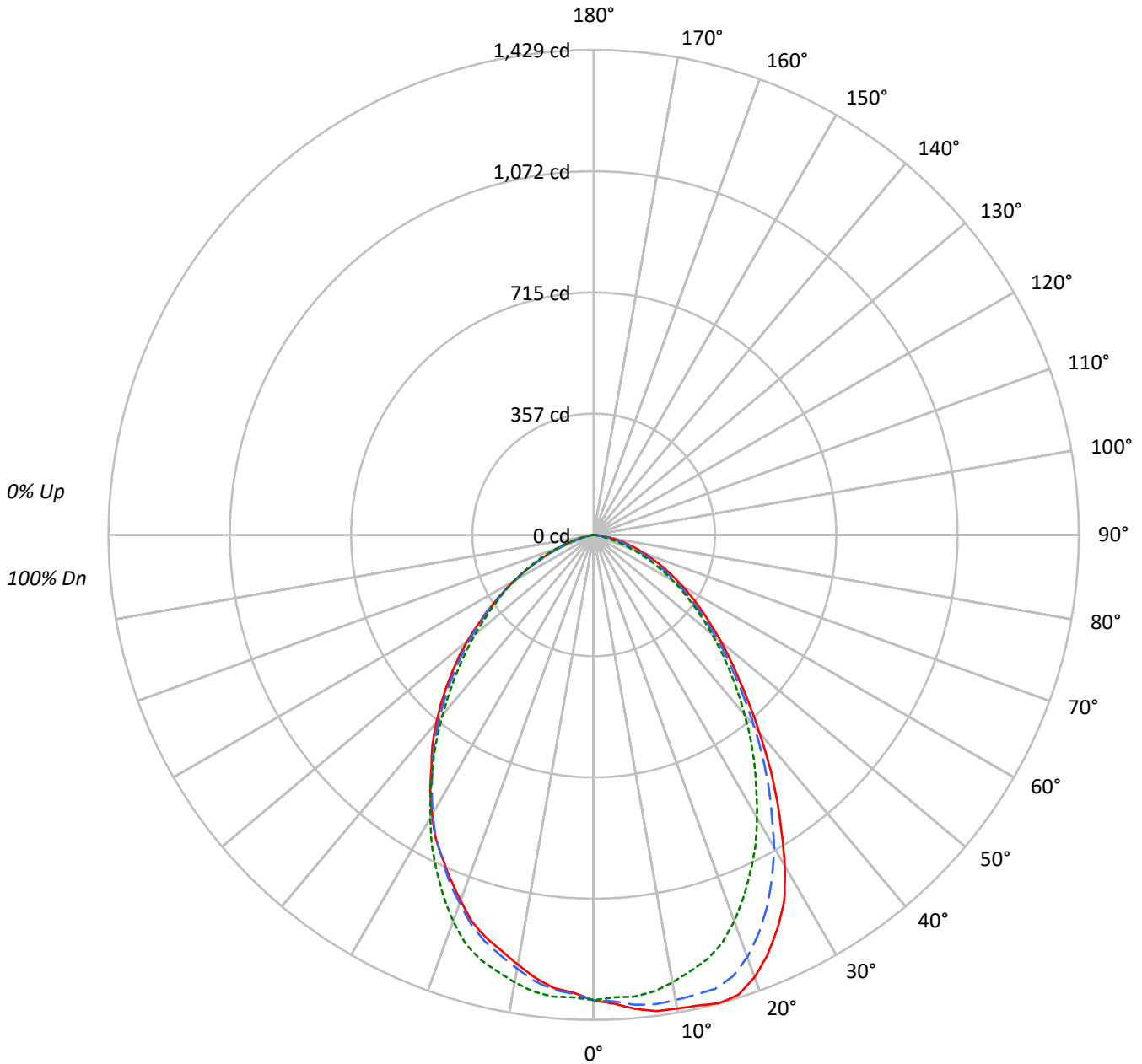
Lumens per Lamp: N/A
Luminaire Lumens: 2612.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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: P580179
CATALOG NUMBER: HCC4S25D010BZ-HM40525840-41RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P580179

CATALOG NUMBER: HCC4S25D010BZ-HM40525840-41RWWH

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				100				
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47				
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42				42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35				35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	169082	169082	169082
5°	173517	169084	165927
10°	177452	167633	161019
15°	182428	165265	156786
20°	181942	158919	150426
25°	174272	148781	143215
30°	160316	137029	135577
35°	141016	124362	125371
40°	122018	111327	115980
45°	106058	98923	104854
50°	94104	87234	93144
55°	83503	76535	79825
60°	74353	66360	66360
65°	66106	55162	51689
70°	57125	41762	36857
75°	47895	27593	22685
80°	36226	13283	12075
85°	19389	4812	4812



TEST NUMBER: P580179
 CATALOG NUMBER: HCC4S25D010BZ-HM40525840-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	5.0
10°-20°	368.0	14.1
20°-30°	519.0	19.9
30°-40°	536.2	20.5
40°-50°	454.5	17.4
50°-60°	330.7	12.7
60°-70°	193.2	7.4
70°-80°	71.8	2.7
80°-90°	9.4	0.4
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°	1016.9	38.9
0°-40°	1553.1	59.4
0°-60°	2338.3	89.5
0°-90°	2612.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1371	1371	1371	1371	1371	
5°	1401	1390	1366	1345	1340	134
15°	1429	1384	1294	1240	1228	402
25°	1280	1209	1093	1054	1052	586
35°	936	896	826	828	833	585
45°	608	591	567	588	601	473
55°	388	370	356	368	371	349
65°	226	208	189	177	177	225
75°	100	83	58	46	48	108
85°	14	8	3	3	3	19
90°	0	0	0	0	0	

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



TEST NUMBER: P580179

CATALOG NUMBER: HCC4S25D010BZ-HM40525840-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8
2.5°	1382.7	1379.3	1375.9	1370.8	1363.9	1358.9	1353.8	1350.4	1350.4
5°	1401.4	1396.3	1389.6	1377.6	1365.6	1355.5	1345.2	1340.1	1340.1
7.5°	1415.1	1408.2	1394.7	1377.6	1357.2	1341.8	1326.5	1319.7	1316.3
10°	1416.8	1409.9	1391.3	1365.6	1338.4	1314.6	1297.6	1287.4	1285.6
12.5°	1420.2	1411.7	1387.8	1352.1	1316.3	1287.4	1268.7	1258.4	1255.0
15°	1428.6	1416.8	1384.4	1338.4	1294.2	1260.1	1239.6	1231.2	1227.8
17.5°	1420.2	1403.1	1363.9	1309.5	1260.1	1222.6	1202.2	1193.7	1193.7
20°	1386.1	1369.1	1323.1	1263.5	1210.7	1175.0	1154.5	1149.4	1146.0
22.5°	1338.4	1319.7	1270.4	1207.4	1154.5	1122.2	1108.6	1101.8	1100.0
25°	1280.5	1261.8	1209.0	1144.4	1093.2	1066.0	1054.0	1054.0	1052.3
27.5°	1215.8	1192.0	1137.5	1081.4	1031.9	1011.5	1006.4	1006.4	1008.1
30°	1125.6	1108.6	1062.6	1008.1	962.1	948.5	948.5	951.9	951.9
32.5°	1028.5	1016.6	975.7	928.0	892.2	883.8	887.2	893.9	895.7
35°	936.5	923.0	895.7	853.1	825.9	822.5	827.6	832.6	832.6
37.5°	846.3	832.6	814.0	779.9	759.5	761.2	767.9	774.8	779.9
40°	757.8	747.5	734.0	706.6	691.4	698.2	706.6	713.5	720.3
42.5°	679.4	669.3	659.0	638.6	628.4	636.9	647.0	653.9	660.7
45°	608.0	601.1	590.9	573.9	567.1	575.6	587.5	594.3	601.1
47.5°	546.7	543.2	529.6	514.3	510.9	519.3	529.6	538.1	543.2
50°	490.4	485.4	473.4	458.0	454.6	468.3	475.1	480.2	485.4
52.5°	435.9	430.8	417.2	403.6	403.6	413.8	418.9	420.6	425.7
55°	388.3	383.2	369.5	359.2	355.9	364.4	367.8	367.8	371.2
57.5°	344.0	338.8	325.3	313.3	311.6	316.7	316.7	316.7	318.4
60°	301.4	296.2	282.7	272.4	269.0	270.7	269.0	267.3	269.0
62.5°	262.3	257.1	243.5	231.6	228.2	228.2	223.1	221.4	223.1
65°	226.5	218.0	207.7	195.9	189.0	183.9	177.1	177.1	177.1
67.5°	190.7	183.9	171.9	160.1	151.5	143.0	132.8	136.3	138.0
70°	158.4	153.2	139.7	127.7	115.8	105.6	97.1	100.5	102.2
72.5°	129.4	122.6	110.6	97.1	86.8	73.3	68.1	71.5	71.5
75°	100.5	93.7	83.4	69.8	57.9	46.0	46.0	47.6	47.6
77.5°	75.0	68.1	57.9	46.0	35.8	27.2	28.9	28.9	28.9
80°	51.0	46.0	37.5	27.2	18.7	15.4	15.4	15.4	17.0
82.5°	28.9	25.5	20.4	13.7	8.5	8.5	8.5	8.5	8.5
85°	13.7	10.2	8.5	5.1	3.4	3.4	3.4	3.4	3.4
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)