

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: P579880

Luminaire Tested: **HCC4W15D010SL-HM40525835-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W15D010SL-HM40525835-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

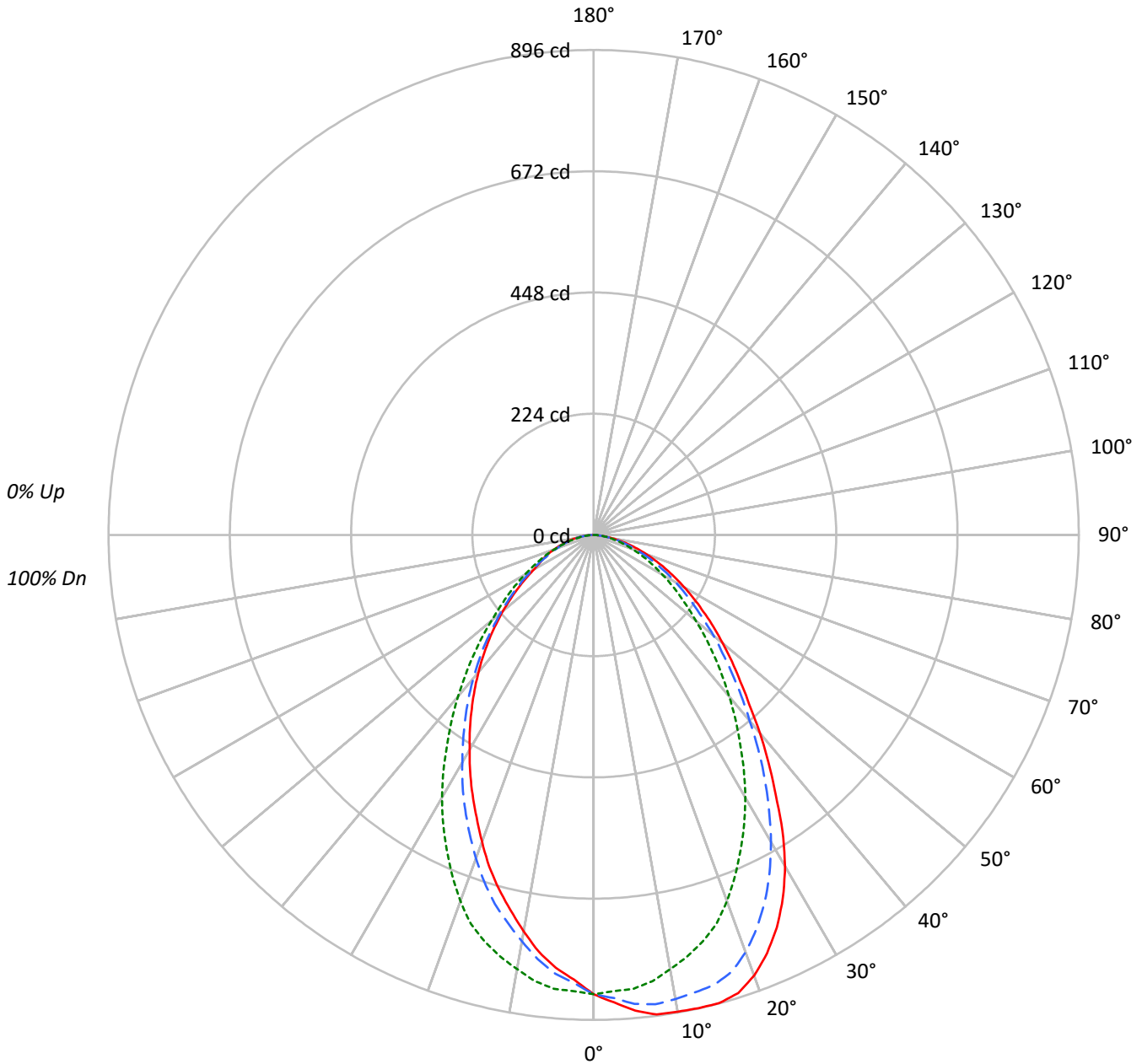
Lumens per Lamp: N/A
Luminaire Lumens: 1515.4 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P579880
CATALOG NUMBER: HCC4W15D010SL-HM40525835-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P579880

CATALOG NUMBER: HCC4W15D010SL-HM40525835-41WWW

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47					47			
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	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	42	37	47	41	37	46	41	37	35					35			
10	59	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°	104659	104659	104659
5°	109268	104204	99388
10°	112035	102040	93147
15°	114352	99310	86438
20°	113738	94482	79151
25°	108973	87374	72022
30°	100682	79774	65260
35°	88238	70952	59086
40°	76837	62684	53200
45°	66879	54686	47534
50°	59582	47129	41948
55°	53246	41439	36278
60°	47537	36214	31280
65°	42232	31754	29741
70°	37074	27336	27733
75°	31406	23304	25687
80°	24151	19889	23441
85°	14152	15568	19813



TEST NUMBER: P579880
 CATALOG NUMBER: HCC4W15D010SL-HM40525835-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	5.2
10°-20°	219.4	14.5
20°-30°	299.8	19.8
30°-40°	301.0	19.9
40°-50°	249.0	16.4
50°-60°	180.5	11.9
60°-70°	114.3	7.5
70°-80°	57.8	3.8
80°-90°	14.2	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°	598.7	39.5
0°-40°	899.7	59.4
0°-60°	1329.2	87.7
0°-90°	1515.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1515.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	848	848	848	848	848	
5°	882	870	842	814	803	85
15°	896	861	778	706	677	252
25°	801	748	642	561	529	366
35°	586	551	471	413	392	367
45°	383	362	314	282	272	298
55°	248	226	193	176	169	223
65°	145	129	109	98	102	144
75°	66	57	49	51	54	70
85°	10	10	11	13	14	14
90°	0	0	0	0	0	



TEST NUMBER: P579880

CATALOG NUMBER: HCC4W15D010SL-HM40525835-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5
2.5°	864.6	861.6	856.6	850.6	843.7	835.6	828.6	824.7	822.6
5°	882.5	878.6	869.6	856.6	841.6	826.6	813.6	805.7	802.7
7.5°	893.6	887.5	874.6	854.6	831.6	809.7	790.7	779.8	776.7
10°	894.5	887.5	870.6	843.7	814.7	785.7	762.7	746.8	743.7
12.5°	895.5	886.5	865.6	833.6	797.7	761.8	733.8	714.8	709.8
15°	895.5	886.5	860.6	822.6	777.7	736.8	705.8	683.9	676.9
17.5°	887.5	877.5	846.6	802.7	753.7	707.8	671.9	648.9	642.0
20°	866.5	855.6	820.7	772.7	719.8	671.9	635.9	611.9	603.0
22.5°	836.6	823.6	786.7	734.7	681.9	633.0	598.1	573.0	565.1
25°	800.7	787.7	747.8	696.9	642.0	596.0	561.1	538.1	529.2
27.5°	756.8	742.8	703.8	652.9	602.0	556.1	524.2	503.1	494.1
30°	706.9	691.9	654.9	606.0	560.1	516.2	485.2	468.2	458.2
32.5°	648.9	635.9	603.0	559.1	516.2	474.2	448.2	433.3	425.4
35°	586.0	579.1	551.1	513.1	471.2	436.3	413.3	399.3	392.4
37.5°	530.1	523.1	499.1	467.2	430.2	398.3	379.4	367.4	361.5
40°	477.2	471.2	448.2	421.3	389.3	361.5	345.4	336.4	330.4
42.5°	425.4	422.3	403.3	378.4	350.4	326.4	313.5	306.5	301.5
45°	383.4	379.4	361.5	337.5	313.5	293.5	282.5	277.5	272.5
47.5°	346.4	341.4	322.5	301.5	279.6	261.5	251.6	246.6	244.6
50°	310.5	305.5	288.6	267.5	245.6	232.6	224.7	219.7	218.6
52.5°	278.6	273.6	254.6	234.6	217.6	206.7	199.7	194.7	192.7
55°	247.6	241.6	225.6	206.7	192.7	182.7	175.7	170.7	168.7
57.5°	219.7	213.6	199.7	181.7	168.7	159.7	153.7	148.7	146.8
60°	192.7	187.7	174.8	157.7	146.8	138.7	132.8	128.8	126.8
62.5°	167.7	163.7	150.8	135.8	126.8	119.8	114.8	110.9	112.8
65°	144.7	140.8	128.8	115.9	108.8	101.9	97.8	97.8	101.9
67.5°	122.8	118.8	108.8	97.8	91.9	86.9	83.9	86.9	89.8
70°	102.8	98.8	89.8	80.8	75.8	71.9	71.9	74.9	76.9
72.5°	83.9	79.8	72.9	65.9	61.9	58.9	61.9	63.9	65.9
75°	65.9	62.9	56.8	52.0	48.9	47.9	50.9	52.9	53.9
77.5°	48.9	47.0	43.0	38.9	37.0	38.0	40.9	42.0	43.0
80°	34.0	33.0	29.9	28.0	28.0	29.0	30.9	31.9	33.0
82.5°	20.9	20.9	19.0	18.0	19.0	20.9	21.9	23.0	23.0
85°	10.0	11.0	10.0	10.0	11.0	13.0	13.0	14.0	14.0
87.5°	3.0	3.0	4.0	4.0	5.0	5.0	5.0	5.0	6.0
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)