

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: P580214

Luminaire Tested: **HCC4W25D010MB-HM40525930-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580214
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: HCC4W25D010MB-HM40525930-41RWWC
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

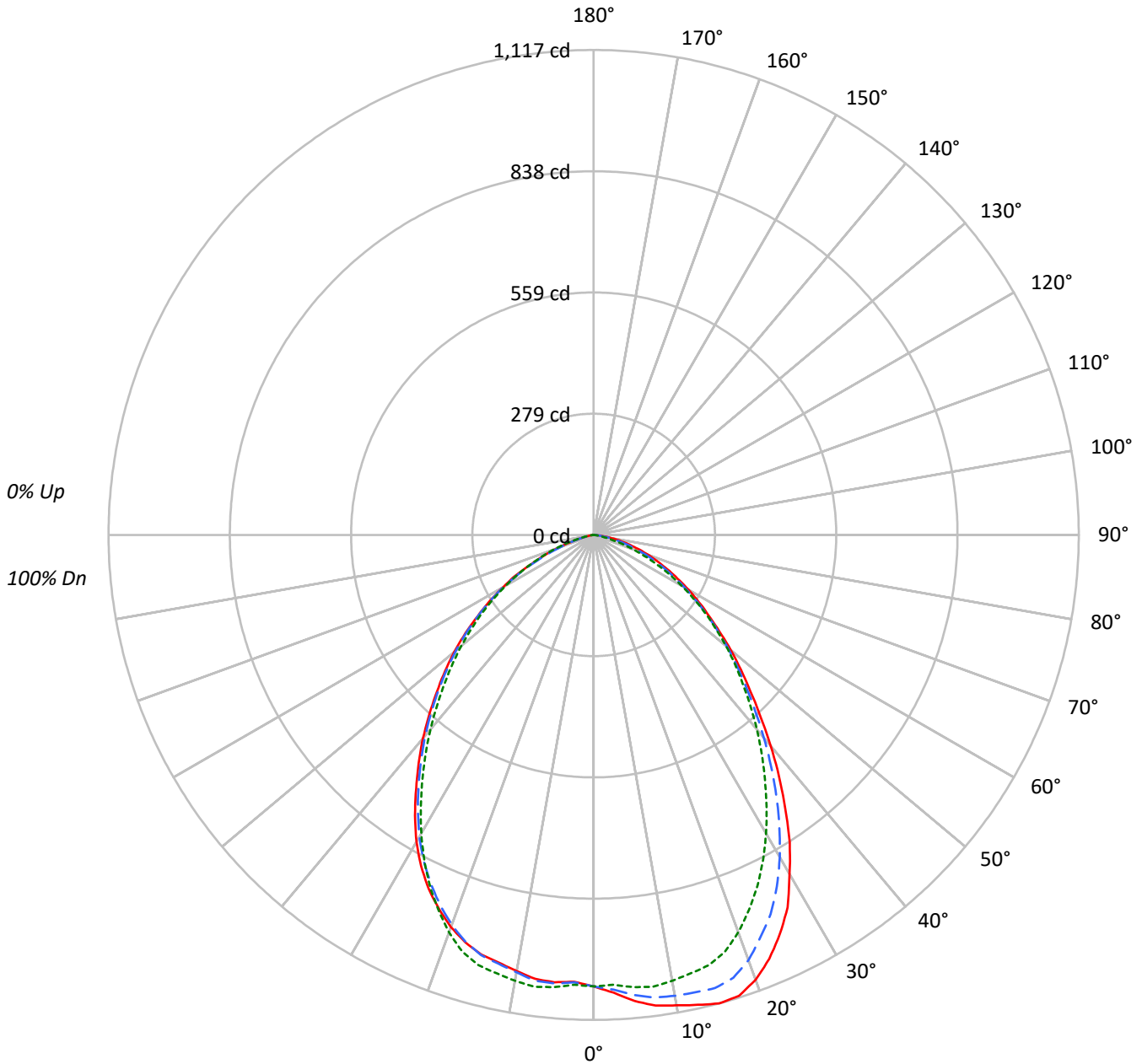
Lumens per Lamp: N/A
Luminaire Lumens: 2166.9 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P580214
CATALOG NUMBER: HCC4W25D010MB-HM40525930-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P580214

CATALOG NUMBER: HCC4W25D010MB-HM40525930-41RWWC

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	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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	128255	128255	128255
5°	133437	129450	128051
10°	137798	130584	127778
15°	142650	130991	127761
20°	143128	127823	126156
25°	138070	121426	122405
30°	128498	113073	116278
35°	115734	103462	107271
40°	102036	94130	98413
45°	89207	84794	88980
50°	79002	76296	80345
55°	69503	67396	70127
60°	62043	57553	59280
65°	54520	46756	45939
70°	47640	34441	31448
75°	39508	20778	16728
80°	29904	8027	4972
85°	13869	1981	1981



TEST NUMBER: P580214
 CATALOG NUMBER: HCC4W25D010MB-HM40525930-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	4.6
10°-20°	292.7	13.5
20°-30°	423.9	19.6
30°-40°	447.2	20.6
40°-50°	387.0	17.9
50°-60°	286.7	13.2
60°-70°	165.3	7.6
70°-80°	57.7	2.7
80°-90°	6.1	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°	816.9	37.7
0°-40°	1264.1	58.3
0°-60°	1937.8	89.4
0°-90°	2166.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2166.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1040	1040	1040	1040	1040	
5°	1078	1064	1046	1037	1034	104
15°	1117	1081	1026	1002	1000	314
25°	1014	964	892	887	899	464
35°	769	734	687	703	712	480
45°	511	497	486	504	510	397
55°	323	316	313	325	326	291
65°	187	176	160	152	157	187
75°	83	70	44	35	35	89
85°	10	6	1	1	1	15
90°	0	0	0	0	0	

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



TEST NUMBER: P580214

CATALOG NUMBER: HCC4W25D010MB-HM40525930-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8
2.5°	1055.3	1052.5	1048.3	1042.6	1037.0	1032.8	1031.5	1030.0	1030.0
5°	1077.7	1072.2	1063.7	1052.5	1045.5	1041.3	1037.0	1034.2	1034.2
7.5°	1093.2	1087.6	1074.9	1059.5	1049.6	1041.3	1035.6	1031.5	1031.5
10°	1100.2	1093.2	1077.7	1058.1	1042.6	1031.5	1023.0	1020.2	1020.2
12.5°	1108.7	1100.2	1079.2	1053.9	1034.2	1020.2	1011.7	1008.9	1008.9
15°	1117.1	1107.3	1080.6	1051.1	1025.8	1008.9	1001.9	1000.5	1000.5
17.5°	1112.9	1100.2	1069.4	1034.2	1006.2	989.2	982.2	982.2	983.6
20°	1090.4	1077.7	1042.6	1003.3	973.8	961.1	955.5	958.3	961.1
22.5°	1056.7	1041.3	1003.3	965.4	934.5	923.2	923.2	927.5	931.7
25°	1014.5	1000.5	963.9	921.8	892.2	883.9	886.7	893.7	899.4
27.5°	966.8	951.3	913.4	874.1	844.5	840.3	847.3	857.1	860.0
30°	902.2	889.4	857.1	819.2	793.9	792.6	802.4	809.4	816.4
32.5°	840.3	826.2	795.4	758.8	740.5	742.0	753.2	761.6	765.8
35°	768.6	756.0	733.5	704.0	687.1	689.9	702.6	711.0	712.4
37.5°	701.2	692.8	670.3	647.8	635.2	640.8	652.0	661.8	661.8
40°	633.7	626.7	609.9	591.6	584.6	591.6	602.8	611.2	611.2
42.5°	569.1	564.8	550.8	538.2	534.0	543.8	553.7	560.7	559.3
45°	511.4	507.3	497.4	487.6	486.1	496.1	504.4	508.7	510.1
47.5°	459.5	456.7	448.2	441.2	441.2	451.0	458.0	462.3	463.7
50°	411.7	408.9	401.9	396.3	397.6	407.5	413.1	417.4	418.7
52.5°	364.0	362.5	356.9	349.9	354.1	361.2	368.2	371.0	372.3
55°	323.2	323.2	316.1	310.6	313.4	320.4	324.6	326.1	326.1
57.5°	286.7	285.3	276.8	271.2	272.7	279.7	282.5	283.8	283.8
60°	251.5	250.1	241.7	233.3	233.3	237.4	238.9	240.3	240.3
62.5°	217.8	216.4	206.6	199.5	196.7	195.3	195.3	198.1	203.8
65°	186.8	185.5	175.7	164.4	160.2	156.0	151.7	154.6	157.4
67.5°	158.7	156.0	146.1	136.3	126.4	119.4	112.4	116.6	122.3
70°	132.1	129.3	118.0	106.8	95.5	84.3	78.7	84.3	87.2
72.5°	106.8	104.0	92.7	81.5	67.4	56.2	54.8	56.2	57.6
75°	82.9	81.5	70.2	57.6	43.6	35.1	35.1	35.1	35.1
77.5°	61.9	59.0	47.8	36.6	25.3	19.6	18.3	18.3	18.3
80°	42.1	39.3	29.5	21.1	11.3	8.5	8.5	7.0	7.0
82.5°	23.9	22.5	15.5	8.5	4.2	2.8	2.8	2.8	2.8
85°	9.8	8.5	5.6	2.8	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	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)