

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: P583990

Luminaire Tested: **HCC8W20D010SL-HM80520830-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W20D010SL-HM80520830-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

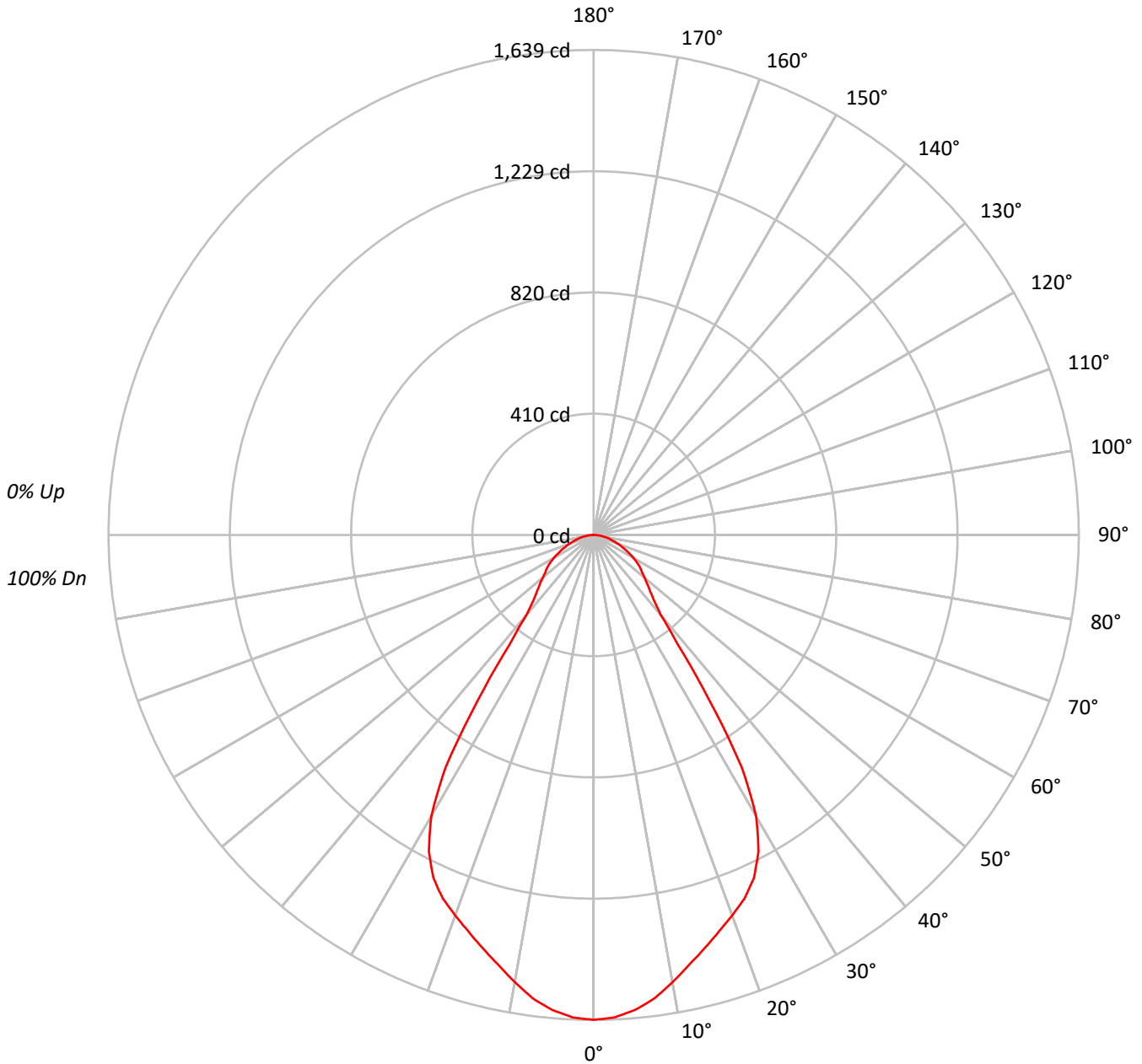
Lumens per Lamp: N/A
Luminaire Lumens: 2153.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: P583990
CATALOG NUMBER: HCC8W20D010SL-HM80520830-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P583990
 CATALOG NUMBER: HCC8W20D010SL-HM80520830-81PSMDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50541
5°	49879
10°	48055
15°	46175
20°	44898
25°	43547
30°	39078
35°	25617
40°	14161
45°	11809
50°	10770
55°	10274
60°	9559
65°	8661
70°	7835
75°	7065
80°	6428
85°	6156



TEST NUMBER: P583990
 CATALOG NUMBER: HCC8W20D010SL-HM80520830-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	7.0
10°-20°	408.1	19.0
20°-30°	580.7	27.0
30°-40°	429.8	20.0
40°-50°	212.9	9.9
50°-60°	169.9	7.9
60°-70°	117.9	5.5
70°-80°	63.5	3.0
80°-90°	18.7	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°	1140.2	53.0
0°-40°	1570.1	72.9
0°-60°	1952.9	90.7
0°-90°	2153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1639	
5°	1611	151
15°	1446	408
25°	1280	581
35°	680	430
45°	271	213
55°	191	170
65°	119	118
75°	59	64
85°	17	19
90°	0	



TEST NUMBER: P583990
CATALOG NUMBER: HCC8W20D010SL-HM80520830-81PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1639.0
2.5°	1631.8
5°	1611.4
7.5°	1579.6
10°	1534.7
12.5°	1488.4
15°	1446.4
17.5°	1405.9
20°	1368.2
22.5°	1330.6
25°	1279.9
27.5°	1206.0
30°	1097.5
32.5°	930.9
35°	680.5
37.5°	464.8
40°	351.8
42.5°	301.2
45°	270.8
47.5°	246.1
50°	224.5
52.5°	205.5
55°	191.1
57.5°	173.8
60°	155.0
62.5°	136.0
65°	118.7
67.5°	101.3
70°	86.9
72.5°	72.3
75°	59.3
77.5°	47.8
80°	36.2
82.5°	26.0
85°	17.4
87.5°	7.2
90°	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°

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)