

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: P584043

Luminaire Tested: **HCC8S20D010SL-HM80520927-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010SL-HM80520927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

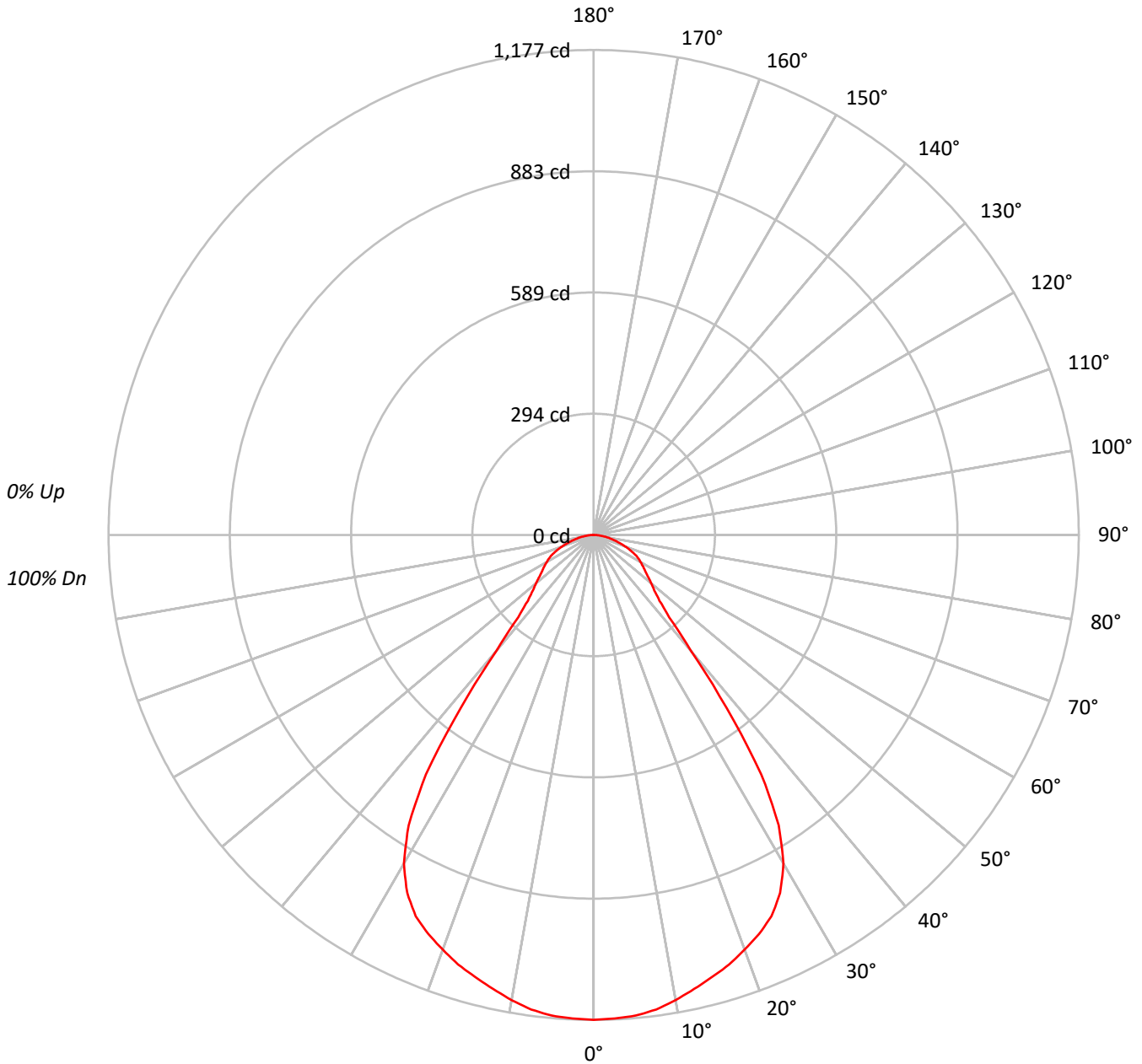
Lumens per Lamp: N/A
Luminaire Lumens: 1815.7 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584043
CATALOG NUMBER: HCC8S20D010SL-HM80520927-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584043

CATALOG NUMBER: HCC8S20D010SL-HM80520927-81WDW

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	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36294
5°	36250
10°	35893
15°	35461
20°	35139
25°	34742
30°	32783
35°	26693
40°	14745
45°	9847
50°	8731
55°	8199
60°	8091
65°	8019
70°	7249
75°	6481
80°	5665
85°	5024



TEST NUMBER: P584043
 CATALOG NUMBER: HCC8S20D010SL-HM80520927-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	6.1
10°-20°	313.7	17.3
20°-30°	466.1	25.7
30°-40°	419.7	23.1
40°-50°	186.1	10.3
50°-60°	137.8	7.6
60°-70°	107.2	5.9
70°-80°	58.1	3.2
80°-90°	15.9	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°	890.8	49.1
0°-40°	1310.5	72.2
0°-60°	1634.4	90.0
0°-90°	1815.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1815.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1177	
5°	1171	111
15°	1111	314
25°	1021	466
35°	709	420
45°	226	186
55°	152	138
65°	110	107
75°	54	58
85°	14	16
90°	0	



TEST NUMBER: P584043
CATALOG NUMBER: HCC8S20D010SL-HM80520927-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1177.0
2.5°	1174.7
5°	1171.1
7.5°	1161.7
10°	1146.3
12.5°	1128.6
15°	1110.8
17.5°	1093.1
20°	1070.8
22.5°	1048.3
25°	1021.1
27.5°	979.8
30°	920.7
32.5°	835.6
35°	709.1
37.5°	529.4
40°	366.3
42.5°	270.7
45°	225.8
47.5°	199.8
50°	182.0
52.5°	165.5
55°	152.5
57.5°	141.8
60°	131.2
62.5°	121.7
65°	109.9
67.5°	95.7
70°	80.4
72.5°	67.4
75°	54.4
77.5°	42.6
80°	31.9
82.5°	22.5
85°	14.2
87.5°	5.9
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)