

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: P580068

Luminaire Tested: **HCC4S20D010MB-HM40525930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S20D010MB-HM40525930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

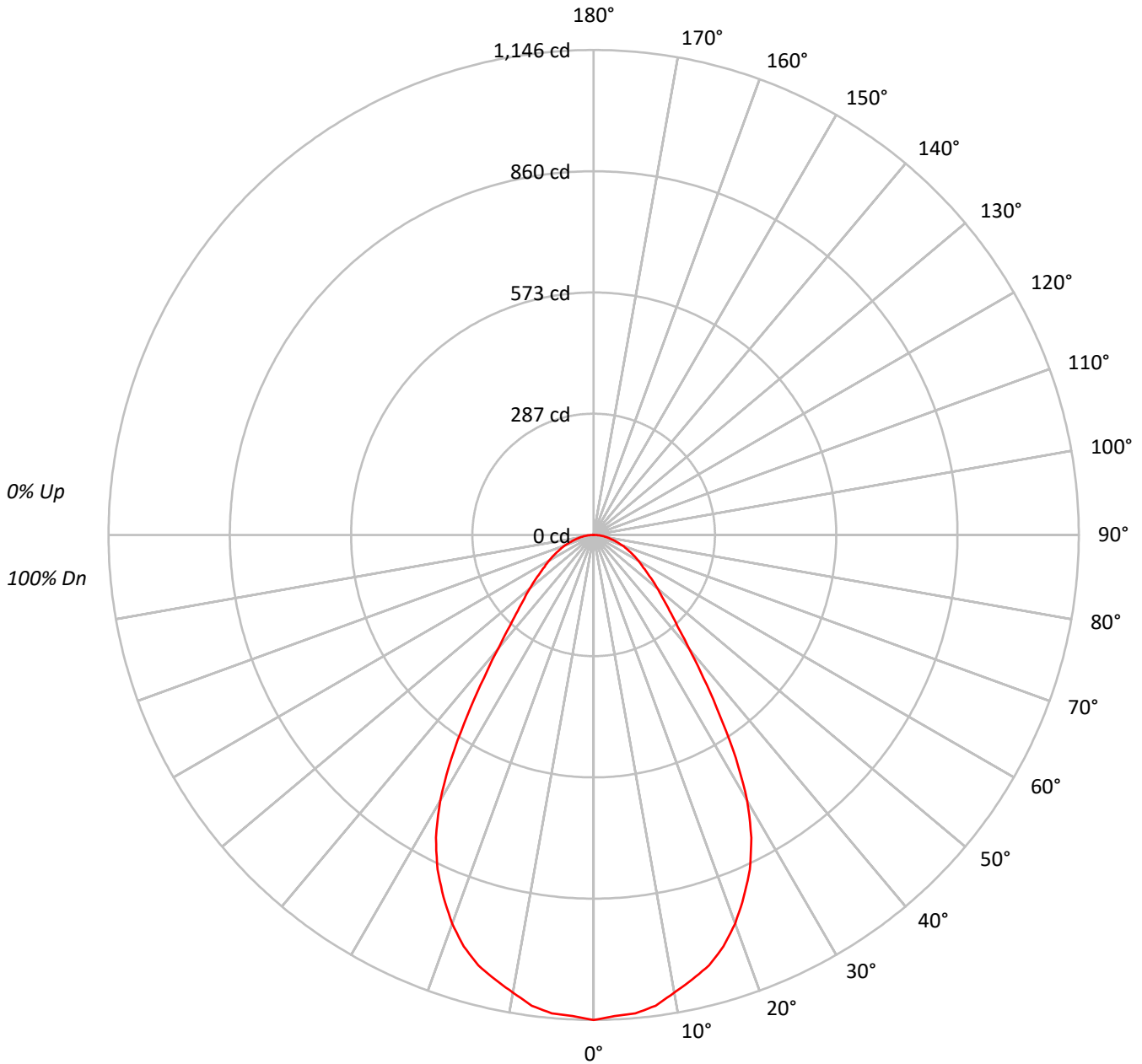
Lumens per Lamp: N/A
Luminaire Lumens: 1627.7 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580068
CATALOG NUMBER: HCC4S20D010MB-HM40525930-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P580068

CATALOG NUMBER: HCC4S20D010MB-HM40525930-41PSMDW

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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	141391
5°	140495
10°	137510
15°	134477
20°	128256
25°	118731
30°	103260
35°	77984
40°	56517
45°	44150
50°	37764
55°	32666
60°	30096
65°	27552
70°	25714
75°	23543
80°	22091
85°	21087



TEST NUMBER: P580068
 CATALOG NUMBER: HCC4S20D010MB-HM40525930-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	6.6
10°-20°	295.0	18.1
20°-30°	396.6	24.4
30°-40°	326.1	20.0
40°-50°	200.3	12.3
50°-60°	138.6	8.5
60°-70°	94.5	5.8
70°-80°	52.6	3.2
80°-90°	16.7	1.0
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°	798.8	49.1
0°-40°	1124.9	69.1
0°-60°	1463.8	89.9
0°-90°	1627.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1627.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1146	
5°	1135	107
15°	1053	295
25°	872	397
35°	518	326
45°	253	200
55°	152	139
65°	94	94
75°	49	53
85°	15	17
90°	0	



TEST NUMBER: P580068
CATALOG NUMBER: HCC4S20D010MB-HM40525930-41PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1146.3
2.5°	1138.2
5°	1134.7
7.5°	1122.1
10°	1097.9
12.5°	1076.0
15°	1053.1
17.5°	1019.7
20°	977.1
22.5°	926.4
25°	872.4
27.5°	806.8
30°	725.0
32.5°	624.9
35°	517.9
37.5°	425.8
40°	351.0
42.5°	293.5
45°	253.1
47.5°	222.1
50°	196.8
52.5°	173.8
55°	151.9
57.5°	135.8
60°	122.0
62.5°	108.2
65°	94.4
67.5°	82.8
70°	71.3
72.5°	59.9
75°	49.4
77.5°	39.1
80°	31.1
82.5°	23.1
85°	14.9
87.5°	8.0
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)