

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: P583997

Luminaire Tested: **HCC8S20D010BZ-HM80520830-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010BZ-HM80520830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

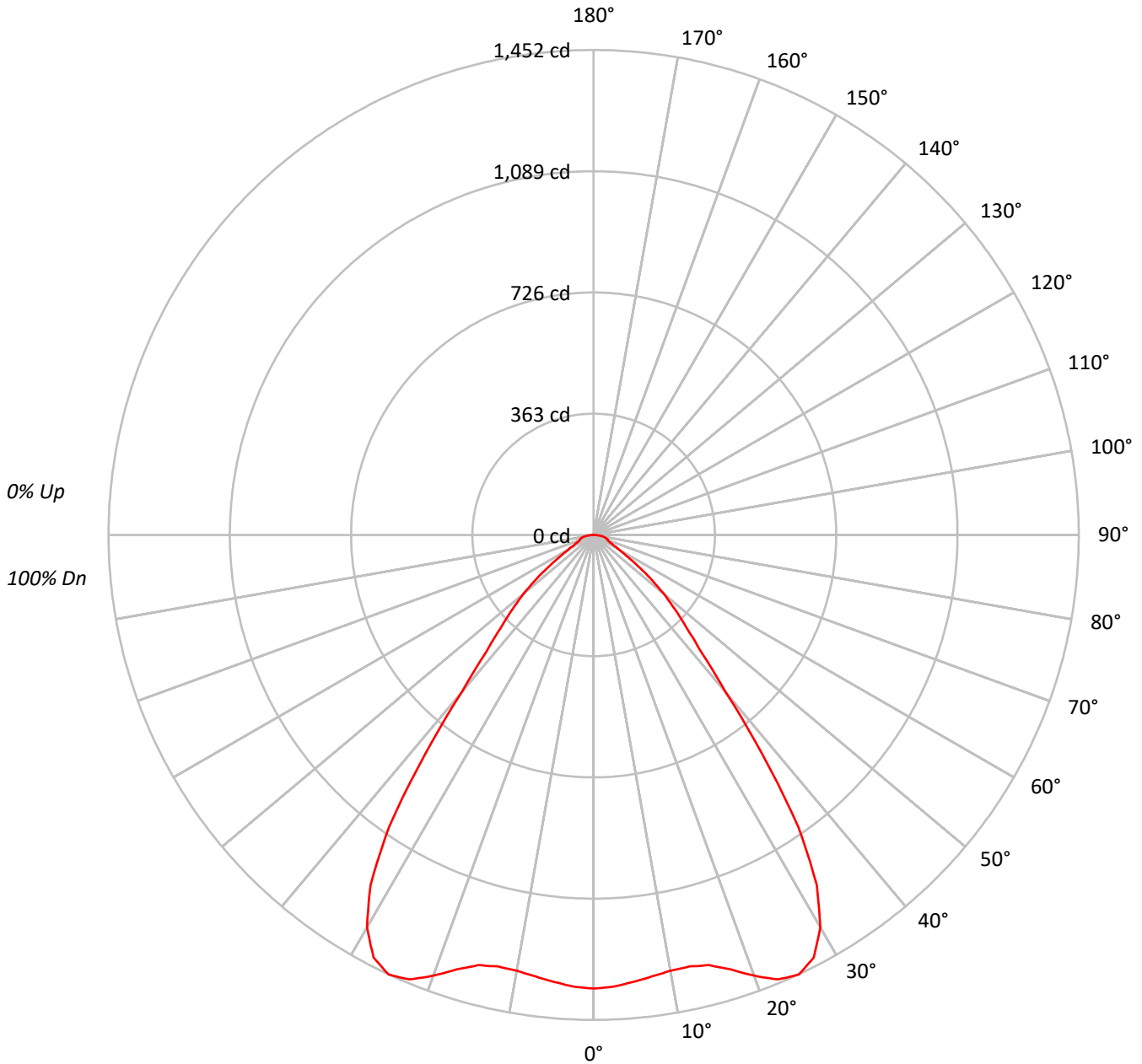
Lumens per Lamp: N/A
Luminaire Lumens: 2384.6 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41879
5°	41593
10°	41485
15°	42571
20°	46089
25°	49413
30°	48308
35°	40223
40°	24712
45°	17112
50°	13058
55°	8559
60°	5359
65°	4013
70°	4048
75°	4658
80°	5150
85°	4599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	5.4
10°-20°	382.8	16.1
20°-30°	659.0	27.6
30°-40°	638.5	26.8
40°-50°	314.5	13.2
50°-60°	148.4	6.2
60°-70°	58.5	2.5
70°-80°	40.4	1.7
80°-90°	15.0	0.6
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°	1169.5	49.0
0°-40°	1808.0	75.8
0°-60°	2270.8	95.2
0°-90°	2384.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2384.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1358	
5°	1344	128
15°	1334	383
25°	1452	659
35°	1068	638
45°	392	314
55°	159	148
65°	55	58
75°	39	40
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1358.1
2.5°	1353.9
5°	1343.7
7.5°	1333.5
10°	1324.9
12.5°	1323.4
15°	1333.5
17.5°	1363.9
20°	1404.5
22.5°	1440.7
25°	1452.3
27.5°	1426.2
30°	1356.7
32.5°	1242.3
35°	1068.5
37.5°	829.6
40°	613.9
42.5°	476.3
45°	392.4
47.5°	330.1
50°	272.2
52.5°	214.3
55°	159.2
57.5°	115.8
60°	86.9
62.5°	68.1
65°	55.0
67.5°	47.8
70°	44.9
72.5°	42.0
75°	39.1
77.5°	34.8
80°	29.0
82.5°	21.7
85°	13.0
87.5°	5.8
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)