

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: P593590

Luminaire Tested: **HCC8W20D010BZ-HM80520850-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W20D010BZ-HM80520850-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

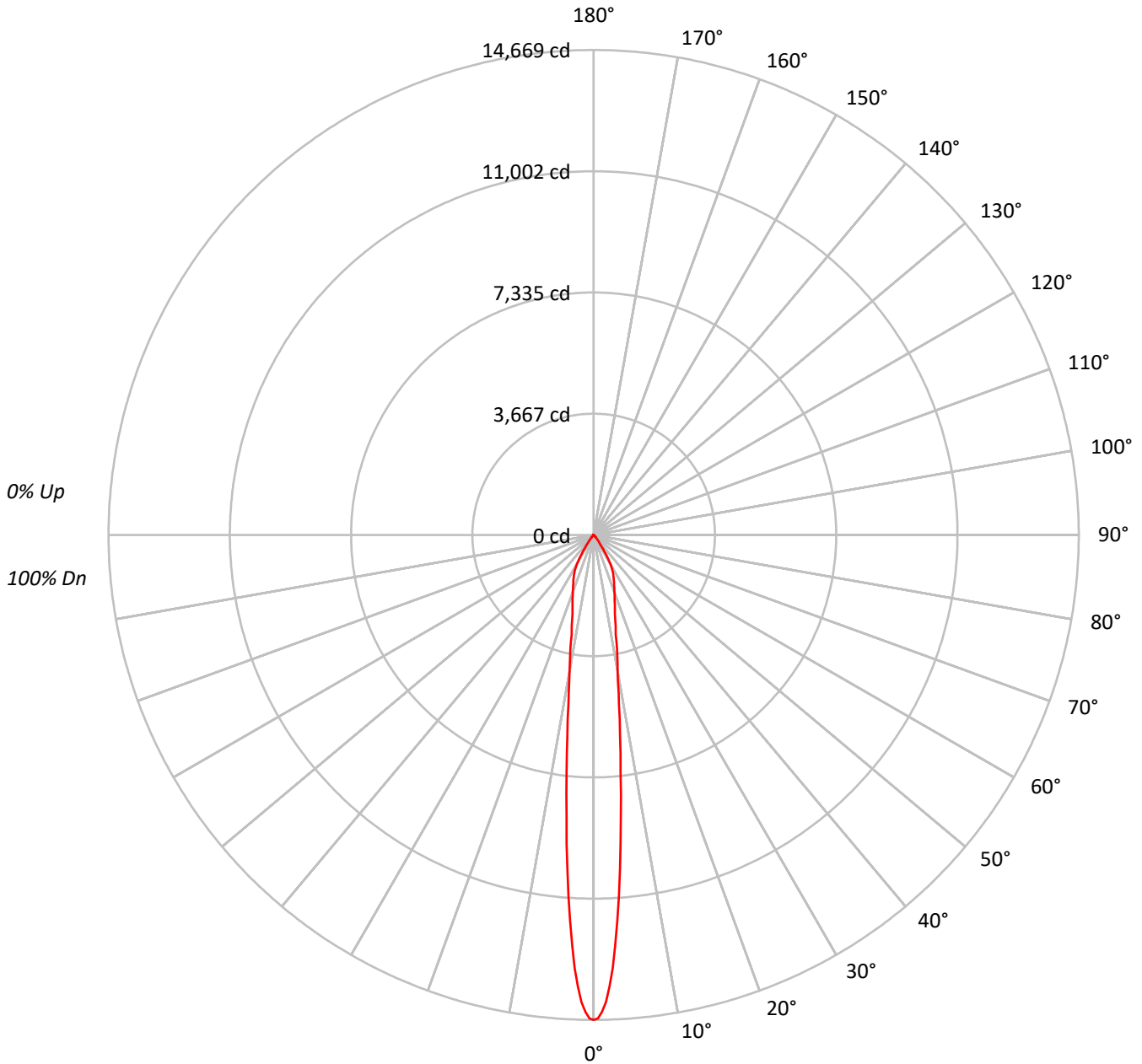
Lumens per Lamp: N/A
Luminaire Lumens: 2403.4 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	452338
5°	290142
10°	131066
15°	79082
20°	60265
25°	48665
30°	35660
35°	12912
40°	4818
45°	2185
50°	696
55°	172
60°	105
65°	124
70°	0
75°	0
80°	302
85°	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.9	29.7
10°-20°	726.1	30.2
20°-30°	650.0	27.0
30°-40°	261.8	10.9
40°-50°	42.9	1.8
50°-60°	3.9	0.2
60°-70°	1.5	0.1
70°-80°	1.1	0.0
80°-90°	1.6	0.1
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°	2091.0	87.0
0°-40°	2352.8	97.9
0°-60°	2399.6	99.8
0°-90°	2403.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2403.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14669	
5°	9373	715
15°	2477	726
25°	1430	650
35°	343	262
45°	50	43
55°	3	4
65°	2	1
75°	0	1
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14669.0
0.5°	14623.7
1°	14434.3
1.5°	14130.2
2°	13669.1
2.5°	13123.7
3°	12441.0
3.5°	11691.9
4°	10950.8
4.5°	10120.8
5°	9373.3
5.5°	8559.3
6°	7899.2
6.5°	7211.5
7°	6671.1
7.5°	6099.9
8°	5640.4
8.5°	5179.3
9°	4833.1
9.5°	4451.2
10°	4185.8
12.5°	3087.1
15°	2477.2
17.5°	2116.4
20°	1836.5
22.5°	1613.2
25°	1430.3
27.5°	1247.5
30°	1001.5
32.5°	644.0
35°	343.0
37.5°	189.4
40°	119.7
42.5°	79.3
45°	50.1
47.5°	30.7
50°	14.5
52.5°	4.8
55°	3.2
57.5°	1.7
60°	1.7
62.5°	1.7
65°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	1.7
80°	1.7
82.5°	1.7
85°	1.7
87.5°	1.7
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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67.5°		1.7
70°		0.0

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(END OF REPORT)