

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: P584766

Luminaire Tested: **HCC8S45D010BZ-HM82555940-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010BZ-HM82555940-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4757.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

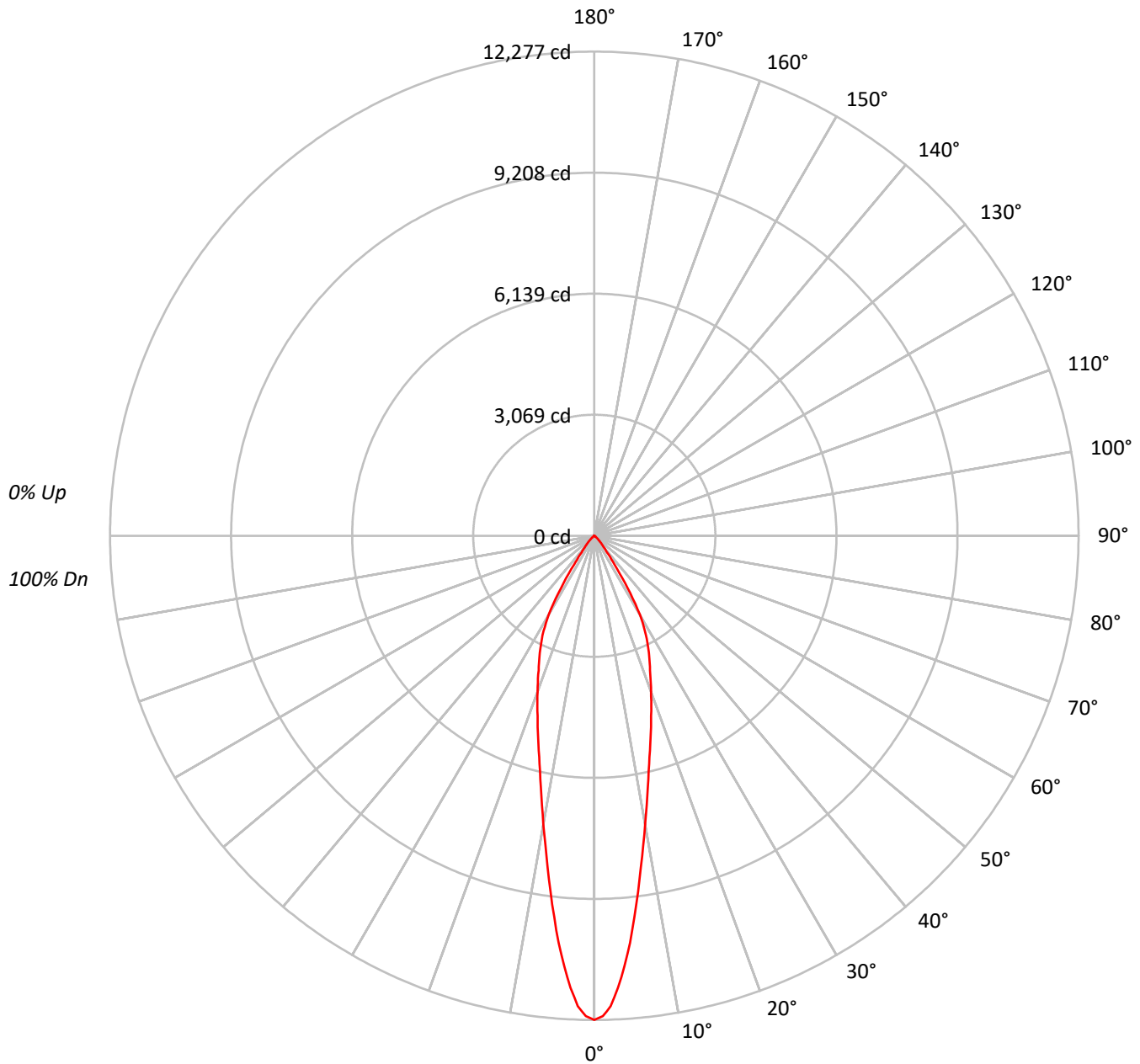
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	109	107		112	109	107	106		105	104	102		102	100	99		98	97	96
2	109	105	101	98		107	103	100	97		100	97	95		97	95	93		94	92	91
3	104	99	94	91		102	97	93	90		95	91	88		92	90	87		90	88	86
4	100	93	88	84		98	92	87	84		90	86	83		88	85	82		86	83	81
5	96	88	83	79		94	87	82	79		86	81	78		84	80	77		82	79	77
6	92	84	78	75		90	83	78	74		81	77	74		80	76	73		79	76	73
7	88	80	74	70		87	79	74	70		78	73	70		77	73	70		76	72	69
8	84	76	71	67		83	75	70	67		74	70	66		73	69	66		72	69	66
9	81	72	67	64		80	72	67	63		71	66	63		70	66	63		69	66	63
10	78	69	64	61		77	69	64	61		68	63	60		67	63	60		67	63	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	378581
5°	320737
10°	232711
15°	174759
20°	137887
25°	111221
30°	82422
35°	33390
40°	14085
45°	7549
50°	3392
55°	1710
60°	1092
65°	773
70°	631
75°	417
80°	622
85°	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.6	18.7
10°-20°	1537.5	32.3
20°-30°	1486.5	31.2
30°-40°	652.9	13.7
40°-50°	141.1	3.0
50°-60°	31.7	0.7
60°-70°	10.9	0.2
70°-80°	4.2	0.1
80°-90°	3.3	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°	3913.7	82.3
0°-40°	4566.5	96.0
0°-60°	4739.4	99.6
0°-90°	4757.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12277	
5°	10362	890
15°	5474	1537
25°	3269	1487
35°	887	653
45°	173	141
55°	32	32
65°	11	11
75°	4	4
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12277.1
1°	12185.2
2°	11934.3
3°	11481.9
4°	10941.3
5°	10361.7
6°	9729.1
7°	9093.0
8°	8495.7
9°	7940.9
10°	7432.0
11°	6951.3
12°	6520.2
13°	6128.0
14°	5781.6
15°	5474.2
17.5°	4785.0
20°	4201.9
22.5°	3689.4
25°	3268.9
27.5°	2841.4
30°	2314.8
32.5°	1572.6
35°	887.0
37.5°	523.0
40°	349.9
42.5°	247.4
45°	173.1
47.5°	113.1
50°	70.7
52.5°	42.5
55°	31.8
57.5°	24.8
60°	17.7
62.5°	14.2
65°	10.6
67.5°	7.0
70°	7.0
72.5°	3.5
75°	3.5
77.5°	3.5
80°	3.5
82.5°	3.5

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Scaled Data Report



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

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— 0°-180°

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85°	3.5
87.5°	3.5

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Scaled Data Report



(END OF REPORT)