

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: P593756

Luminaire Tested: **HC845D010-HM82555850-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555850-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5453.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

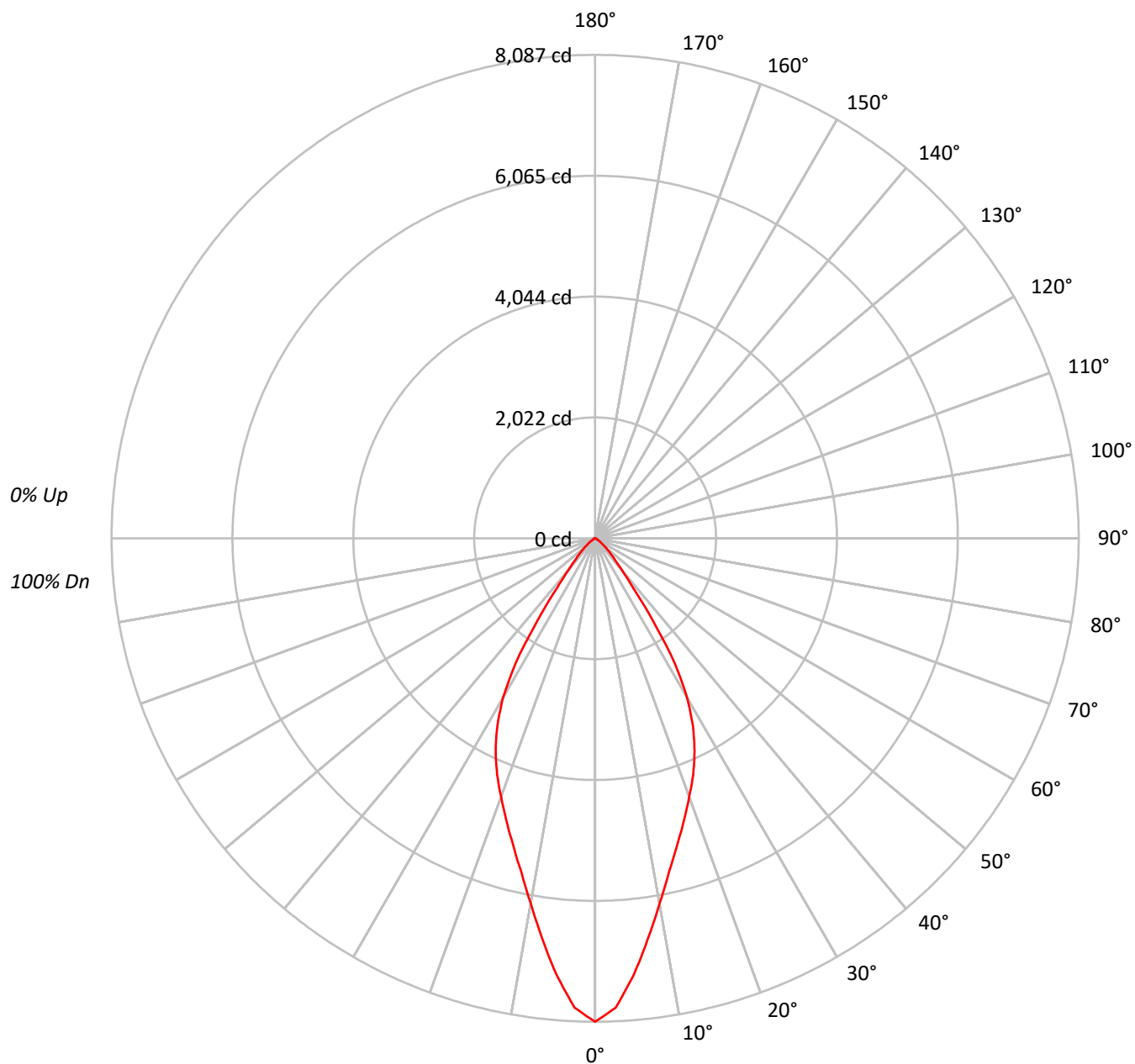
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	93		95	93	91		92
3	103	96	91	87	101	95	90	87	92	88	85		90	87	84		88
4	97	90	85	80	96	89	84	80	87	82	79		85	81	78		83
5	93	84	79	74	91	83	78	74	82	77	73		80	76	73		78
6	88	79	73	69	87	78	73	69	77	72	68		76	71	68		74
7	84	75	69	64	82	74	68	64	73	68	64		71	67	64		70
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67
9	76	67	61	57	75	66	61	57	65	60	57		64	60	56		63
10	73	63	57	54	72	63	57	53	62	57	53		61	56	53		60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	249386
5°	227259
10°	194172
15°	169332
20°	150924
25°	133878
30°	109612
35°	62945
40°	27932
45°	16257
50°	9388
55°	5360
60°	2960
65°	1882
70°	1334
75°	882
80°	639
85°	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.6	12.2
10°-20°	1491.0	27.3
20°-30°	1784.7	32.7
30°-40°	1079.7	19.8
40°-50°	302.6	5.5
50°-60°	94.0	1.7
60°-70°	26.8	0.5
70°-80°	7.3	0.1
80°-90°	2.4	0.0
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°	3940.3	72.3
0°-40°	5019.9	92.1
0°-60°	5416.5	99.3
0°-90°	5453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5453.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8087	
5°	7342	665
15°	5304	1491
25°	3935	1785
35°	1672	1080
45°	373	303
55°	100	94
65°	26	27
75°	7	7
85°	4	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8087.4
2.5°	7858.5
5°	7341.8
7.5°	6758.6
10°	6201.2
12.5°	5713.9
15°	5304.2
17.5°	4942.6
20°	4599.2
22.5°	4281.8
25°	3934.8
27.5°	3543.5
30°	3078.4
32.5°	2476.8
35°	1672.1
37.5°	1040.9
40°	693.9
42.5°	498.3
45°	372.8
47.5°	273.2
50°	195.7
52.5°	136.5
55°	99.7
57.5°	66.4
60°	48.0
62.5°	33.2
65°	25.8
67.5°	18.4
70°	14.8
72.5°	7.4
75°	7.4
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)