

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: P584836

Luminaire Tested: **HC850D010-HM82555840-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555840-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5782.8 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

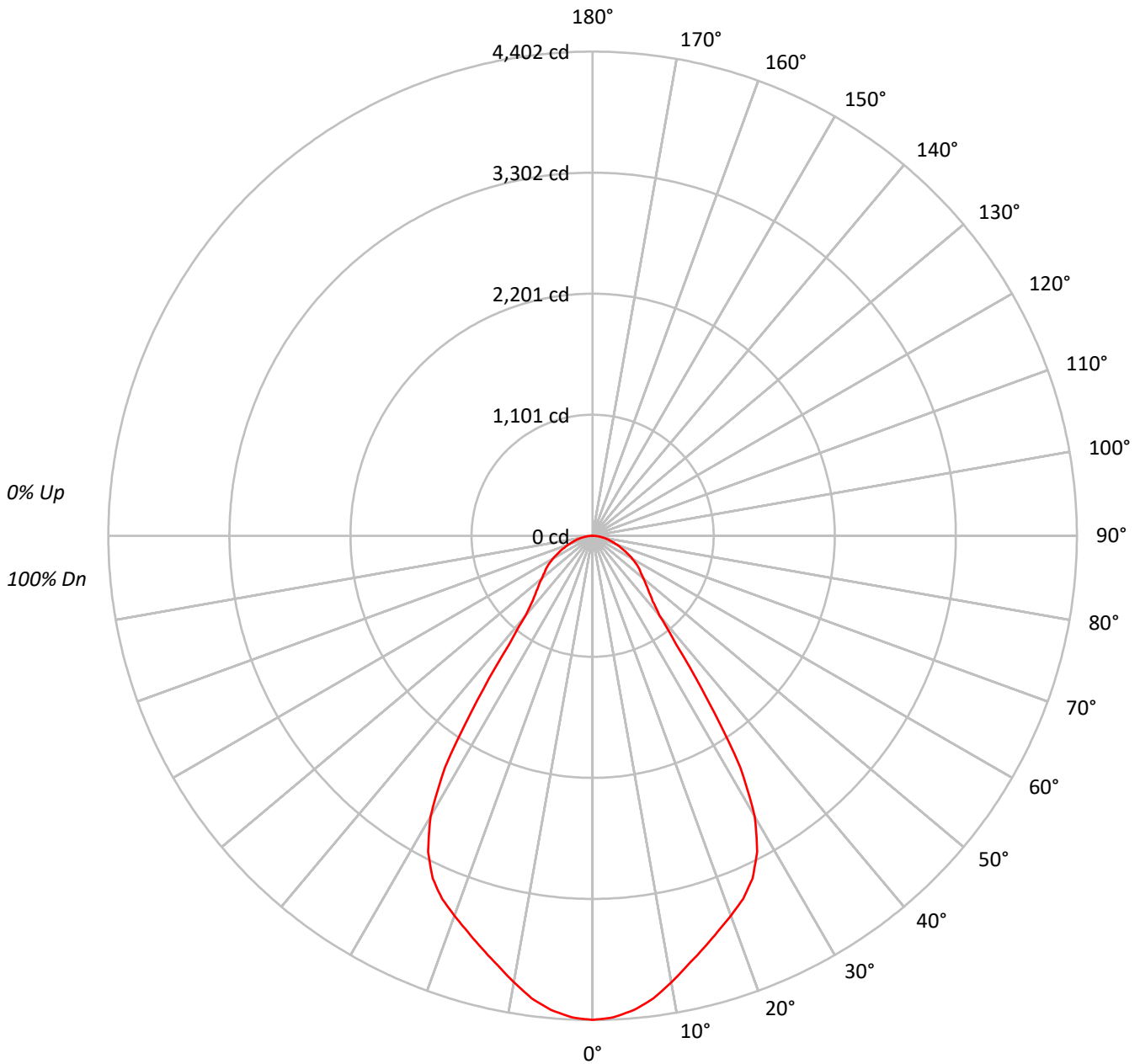
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135738
5°	133969
10°	129065
15°	124016
20°	120590
25°	116961
30°	104951
35°	68799
40°	38036
45°	31708
50°	28913
55°	27596
60°	25656
65°	23269
70°	21034
75°	19003
80°	17278
85°	16487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	7.0
10°-20°	1096.0	19.0
20°-30°	1559.8	27.0
30°-40°	1154.4	20.0
40°-50°	571.8	9.9
50°-60°	456.4	7.9
60°-70°	316.8	5.5
70°-80°	170.8	3.0
80°-90°	50.2	0.9
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°	3062.4	53.0
0°-40°	4216.8	72.9
0°-60°	5245.0	90.7
0°-90°	5782.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5782.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4402	
5°	4328	407
15°	3885	1096
25°	3438	1560
35°	1828	1154
45°	727	572
55°	513	456
65°	319	317
75°	160	171
85°	47	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4401.9
2.5°	4382.5
5°	4328.0
7.5°	4242.4
10°	4121.9
12.5°	3997.5
15°	3884.7
17.5°	3775.9
20°	3674.8
22.5°	3573.6
25°	3437.6
27.5°	3239.2
30°	2947.5
32.5°	2500.4
35°	1827.6
37.5°	1248.3
40°	944.9
42.5°	808.8
45°	727.1
47.5°	661.1
50°	602.7
52.5°	552.2
55°	513.3
57.5°	466.7
60°	416.0
62.5°	365.5
65°	318.9
67.5°	272.3
70°	233.3
72.5°	194.4
75°	159.5
77.5°	128.4
80°	97.3
82.5°	70.0
85°	46.6
87.5°	19.4
90°	0.0



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— 0°-180°







(END OF REPORT)