

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: P584904

Luminaire Tested: **HC850D010-HM82555940-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584904
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-HM82555940-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5503.8 lumens
Efficiency: N/A
Efficacy: 114.7 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

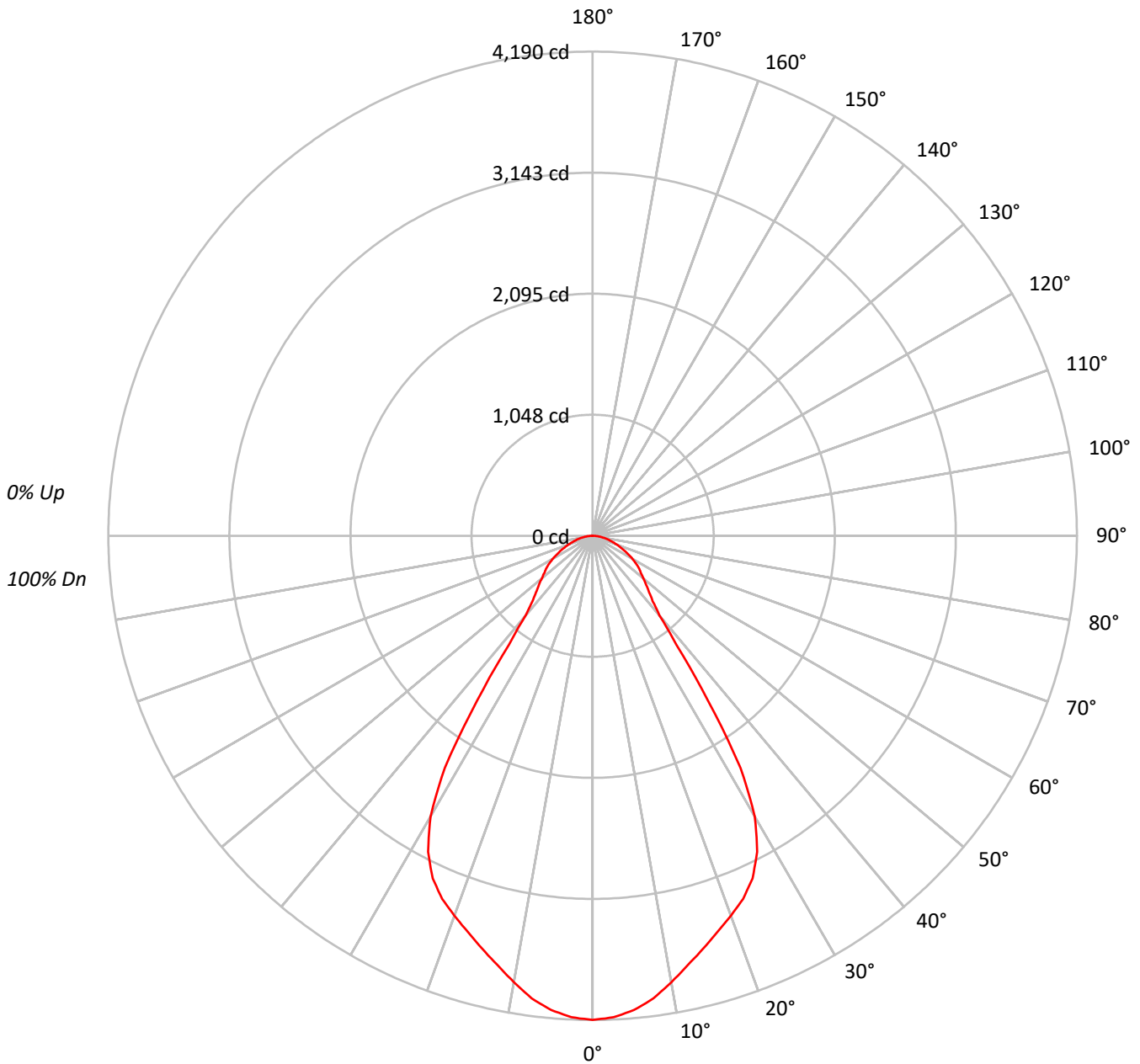
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	129192
5°	127506
10°	122837
15°	118033
20°	114768
25°	111317
30°	99891
35°	65482
40°	36200
45°	30178
50°	27517
55°	26262
60°	24429
65°	22145
70°	20024
75°	18074
80°	16426
85°	15709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	7.0
10°-20°	1043.1	19.0
20°-30°	1484.5	27.0
30°-40°	1098.7	20.0
40°-50°	544.2	9.9
50°-60°	434.3	7.9
60°-70°	301.5	5.5
70°-80°	162.5	3.0
80°-90°	47.8	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°	2914.7	53.0
0°-40°	4013.4	72.9
0°-60°	4991.9	90.7
0°-90°	5503.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5503.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4190	
5°	4119	387
15°	3697	1043
25°	3272	1485
35°	1740	1099
45°	692	544
55°	488	434
65°	304	302
75°	152	163
85°	44	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4189.6
2.5°	4171.0
5°	4119.2
7.5°	4037.8
10°	3923.0
12.5°	3804.6
15°	3697.3
17.5°	3593.7
20°	3497.4
22.5°	3401.2
25°	3271.7
27.5°	3082.9
30°	2805.4
32.5°	2379.7
35°	1739.5
37.5°	1188.1
40°	899.3
42.5°	769.8
45°	692.0
47.5°	629.2
50°	573.6
52.5°	525.6
55°	488.5
57.5°	444.1
60°	396.1
62.5°	347.9
65°	303.5
67.5°	259.1
70°	222.1
72.5°	185.1
75°	151.7
77.5°	122.2
80°	92.5
82.5°	66.6
85°	44.4
87.5°	18.5
90°	0.0



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— 0°-180°







(END OF REPORT)