

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: P584598

Luminaire Tested: **HC840D010-HM82555930-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584598
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: HC840D010-HM82555930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4416.9 lumens
Efficiency: N/A
Efficacy: 107.7 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

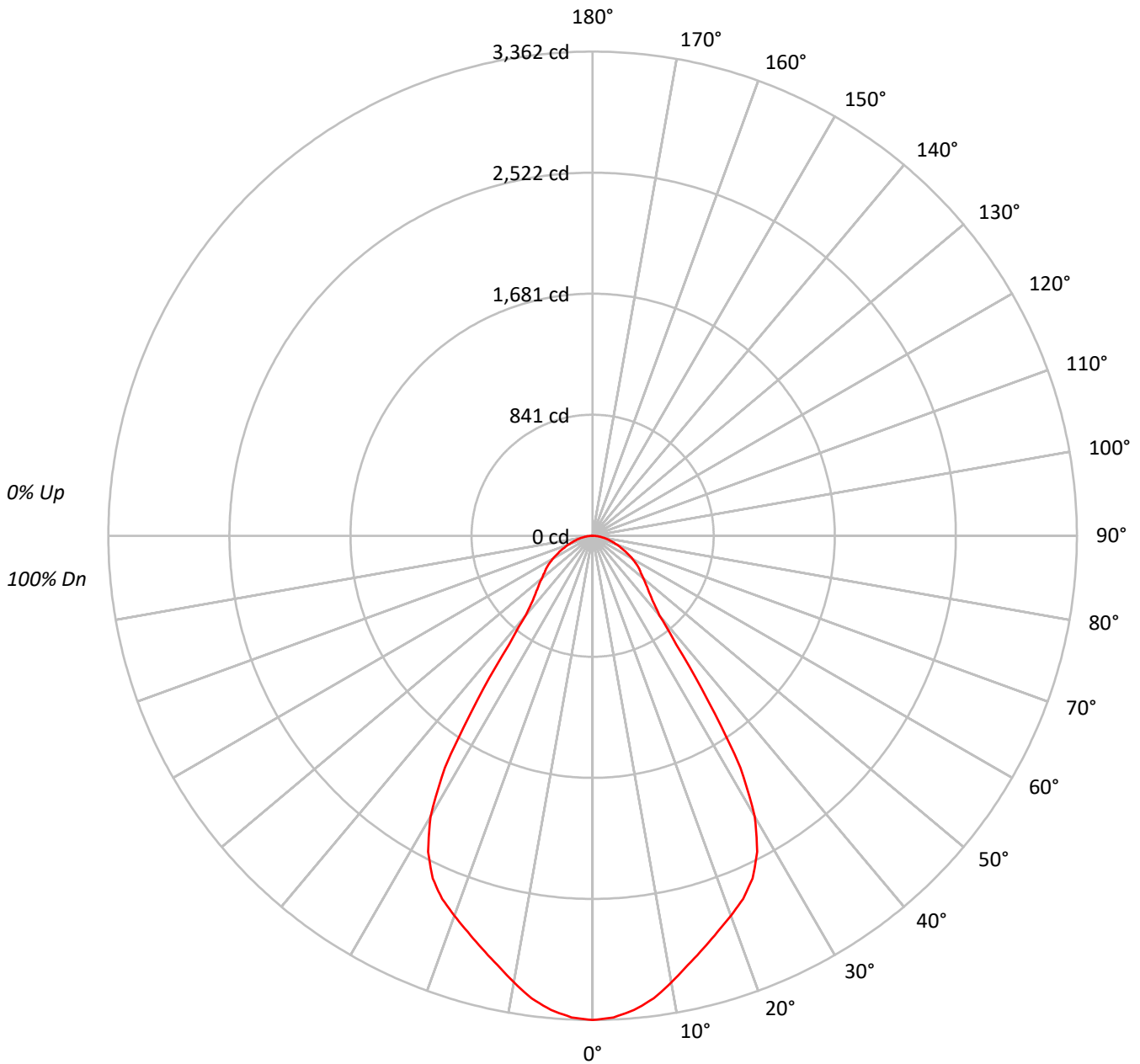
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103678
5°	102328
10°	98583
15°	94722
20°	92109
25°	89334
30°	80165
35°	52551
40°	29051
45°	24221
50°	22087
55°	21080
60°	19600
65°	17774
70°	16075
75°	14500
80°	13194
85°	12631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	7.0
10°-20°	837.1	19.0
20°-30°	1191.4	27.0
30°-40°	881.8	20.0
40°-50°	436.7	9.9
50°-60°	348.6	7.9
60°-70°	242.0	5.5
70°-80°	130.4	3.0
80°-90°	38.4	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°	2339.1	53.0
0°-40°	3220.9	72.9
0°-60°	4006.1	90.7
0°-90°	4416.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4416.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3362	
5°	3306	311
15°	2967	837
25°	2626	1191
35°	1396	882
45°	555	437
55°	392	349
65°	244	242
75°	122	130
85°	36	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3362.2
2.5°	3347.4
5°	3305.8
7.5°	3240.5
10°	3148.4
12.5°	3053.3
15°	2967.1
17.5°	2884.0
20°	2806.9
22.5°	2729.6
25°	2625.6
27.5°	2474.1
30°	2251.4
32.5°	1909.8
35°	1396.0
37.5°	953.4
40°	721.7
42.5°	617.8
45°	555.4
47.5°	504.9
50°	460.4
52.5°	421.7
55°	392.1
57.5°	356.4
60°	317.8
62.5°	279.2
65°	243.6
67.5°	207.9
70°	178.3
72.5°	148.5
75°	121.7
77.5°	98.1
80°	74.3
82.5°	53.4
85°	35.7
87.5°	14.9
90°	0.0



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— 0°-180°







(END OF REPORT)