

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: P581526

Luminaire Tested: **HC407D010-HM40525935-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525935-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 748.5 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

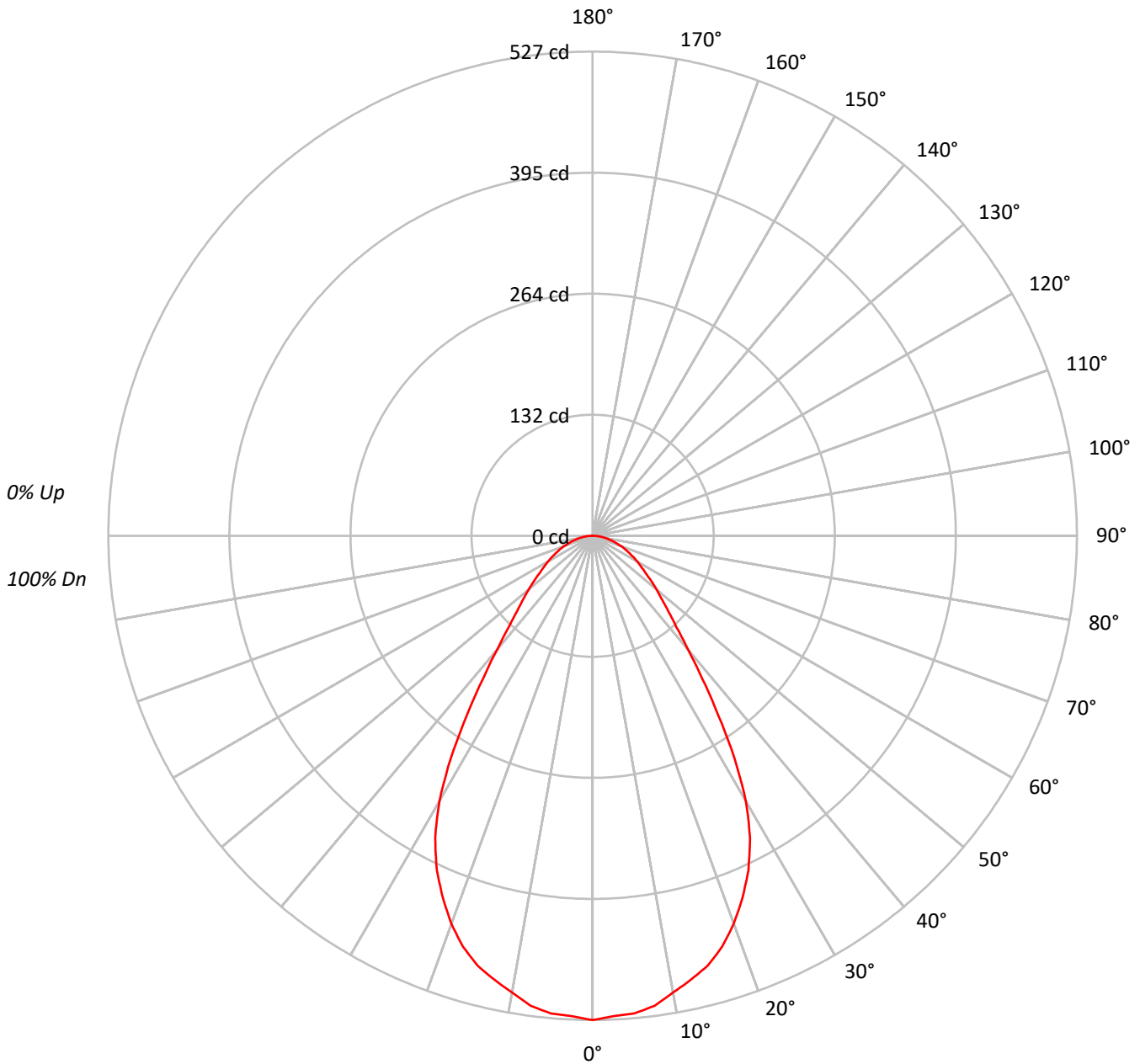
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65015
5°	64608
10°	63225
15°	61831
20°	58976
25°	54588
30°	47485
35°	35867
40°	25988
45°	20304
50°	17366
55°	15032
60°	13839
65°	12667
70°	11829
75°	10866
80°	10158
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	6.6
10°-20°	135.6	18.1
20°-30°	182.4	24.4
30°-40°	150.0	20.0
40°-50°	92.1	12.3
50°-60°	63.8	8.5
60°-70°	43.4	5.8
70°-80°	24.2	3.2
80°-90°	7.7	1.0
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°	367.3	49.1
0°-40°	517.3	69.1
0°-60°	673.2	89.9
0°-90°	748.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	748.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	527	
5°	522	49
15°	484	136
25°	401	182
35°	238	150
45°	116	92
55°	70	64
65°	43	43
75°	23	24
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	527.1
2.5°	523.4
5°	521.8
7.5°	516.0
10°	504.8
12.5°	494.8
15°	484.2
17.5°	468.9
20°	449.3
22.5°	426.1
25°	401.1
27.5°	371.0
30°	333.4
32.5°	287.3
35°	238.2
37.5°	195.8
40°	161.4
42.5°	135.0
45°	116.4
47.5°	102.2
50°	90.5
52.5°	79.9
55°	69.9
57.5°	62.5
60°	56.1
62.5°	49.7
65°	43.4
67.5°	38.1
70°	32.8
72.5°	27.5
75°	22.8
77.5°	18.0
80°	14.3
82.5°	10.6
85°	6.8
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)