

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: P581418

Luminaire Tested: **HC407D010-HM40525827-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581418
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-HM40525827-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 746.4 lumens
Efficiency: N/A
Efficacy: 93.3 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

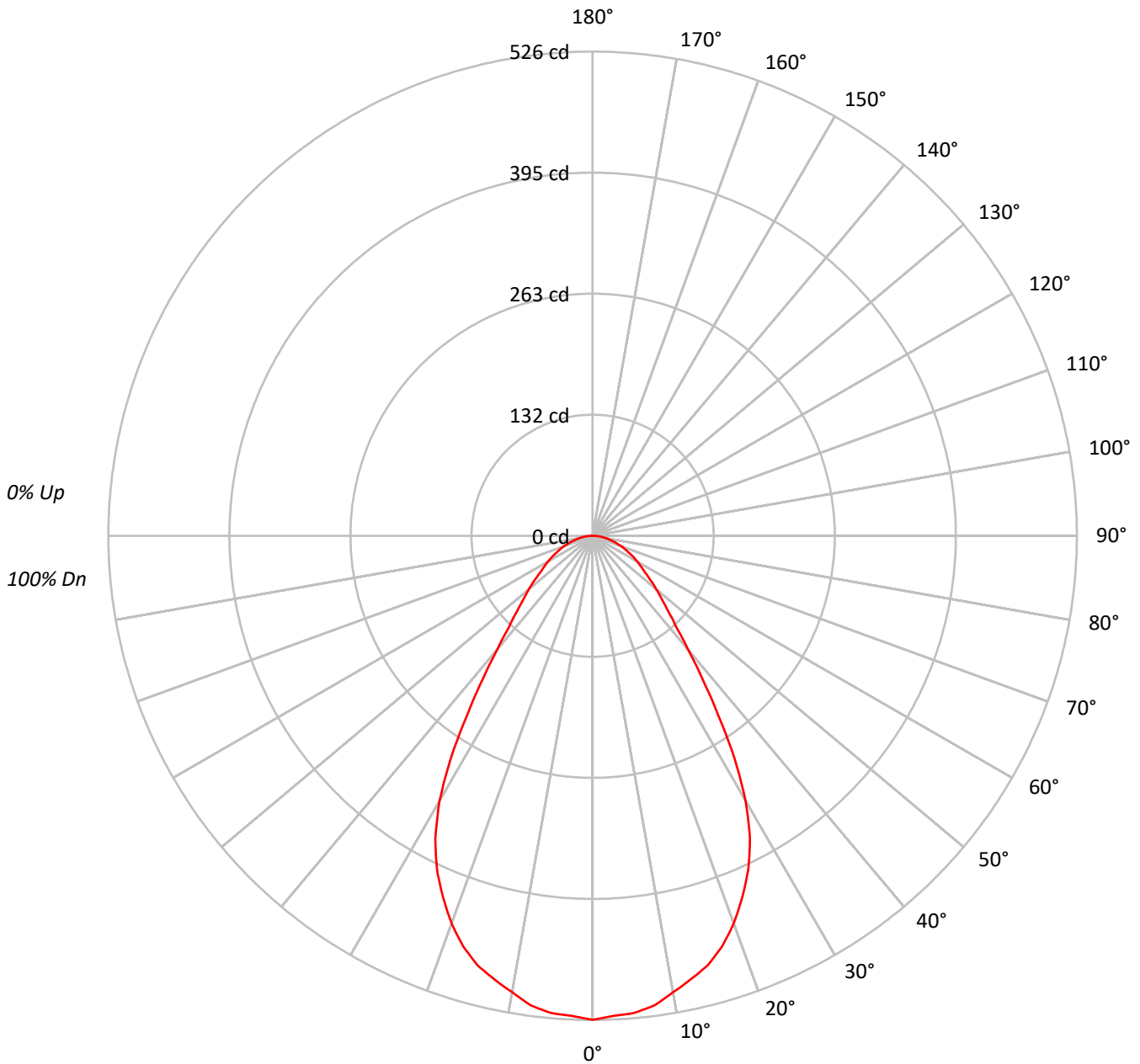
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	92	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°	64855
5°	64434
10°	63075
15°	61678
20°	58818
25°	54452
30°	47357
35°	35762
40°	25924
45°	20252
50°	17309
55°	14967
60°	13815
65°	12608
70°	11829
75°	10771
80°	10087
85°	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	6.6
10°-20°	135.3	18.1
20°-30°	181.9	24.4
30°-40°	149.6	20.0
40°-50°	91.9	12.3
50°-60°	63.5	8.5
60°-70°	43.3	5.8
70°-80°	24.1	3.2
80°-90°	7.6	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°	366.4	49.1
0°-40°	515.9	69.1
0°-60°	671.3	89.9
0°-90°	746.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	526	
5°	520	49
15°	483	135
25°	400	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°	525.8
2.5°	522.0
5°	520.4
7.5°	514.6
10°	503.6
12.5°	493.6
15°	483.0
17.5°	467.6
20°	448.1
22.5°	424.9
25°	400.1
27.5°	370.0
30°	332.5
32.5°	286.7
35°	237.5
37.5°	195.3
40°	161.0
42.5°	134.6
45°	116.1
47.5°	101.9
50°	90.2
52.5°	79.7
55°	69.6
57.5°	62.2
60°	56.0
62.5°	49.6
65°	43.2
67.5°	38.0
70°	32.8
72.5°	27.4
75°	22.6
77.5°	18.0
80°	14.2
82.5°	10.6
85°	6.8
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)