

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: P581454

Luminaire Tested: **HC407D010-HM40525835-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581454
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-HM40525835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 838.1 lumens
Efficiency: N/A
Efficacy: 104.8 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

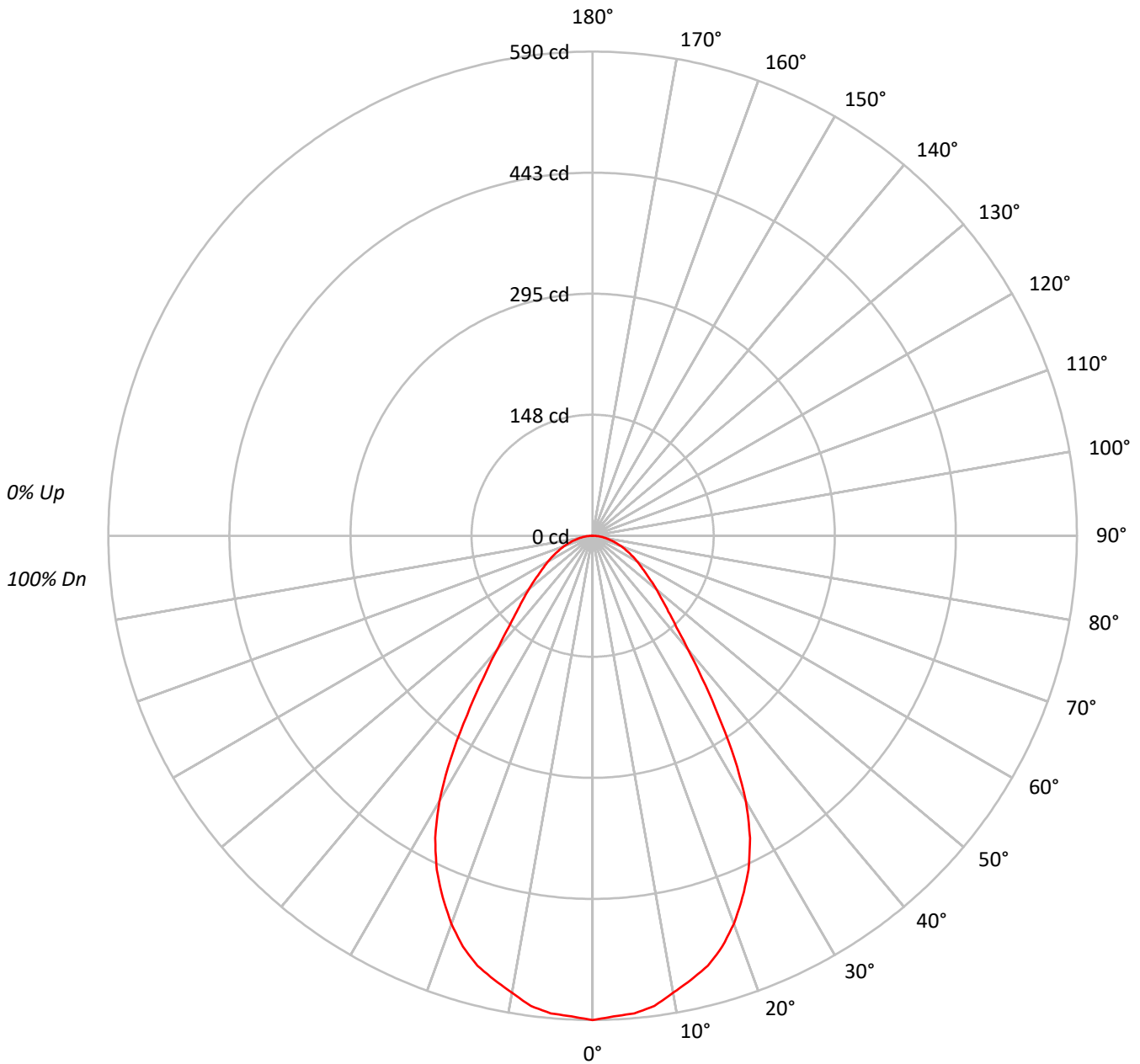
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72799
5°	72334
10°	70815
15°	69250
20°	66038
25°	61135
30°	53182
35°	40144
40°	29096
45°	22747
50°	19439
55°	16817
60°	15492
65°	14184
70°	13271
75°	12153
80°	11365
85°	10897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	6.6
10°-20°	151.9	18.1
20°-30°	204.2	24.4
30°-40°	167.9	20.0
40°-50°	103.1	12.3
50°-60°	71.3	8.5
60°-70°	48.6	5.8
70°-80°	27.1	3.2
80°-90°	8.6	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°	411.3	49.1
0°-40°	579.3	69.1
0°-60°	753.7	89.9
0°-90°	838.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	590	
5°	584	55
15°	542	152
25°	449	204
35°	267	168
45°	130	103
55°	78	71
65°	49	49
75°	26	27
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	590.2
2.5°	586.1
5°	584.2
7.5°	577.8
10°	565.4
12.5°	554.1
15°	542.3
17.5°	525.1
20°	503.1
22.5°	477.0
25°	449.2
27.5°	415.4
30°	373.4
32.5°	321.8
35°	266.6
37.5°	219.3
40°	180.7
42.5°	151.1
45°	130.4
47.5°	114.4
50°	101.3
52.5°	89.4
55°	78.2
57.5°	69.9
60°	62.8
62.5°	55.6
65°	48.6
67.5°	42.7
70°	36.8
72.5°	30.8
75°	25.5
77.5°	20.1
80°	16.0
82.5°	11.8
85°	7.7
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)