

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: P580140

Luminaire Tested: **HC425D010-HM40525830-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580140
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: HC425D010-HM40525830-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2261.0 lumens
Efficiency: N/A
Efficacy: 84.4 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

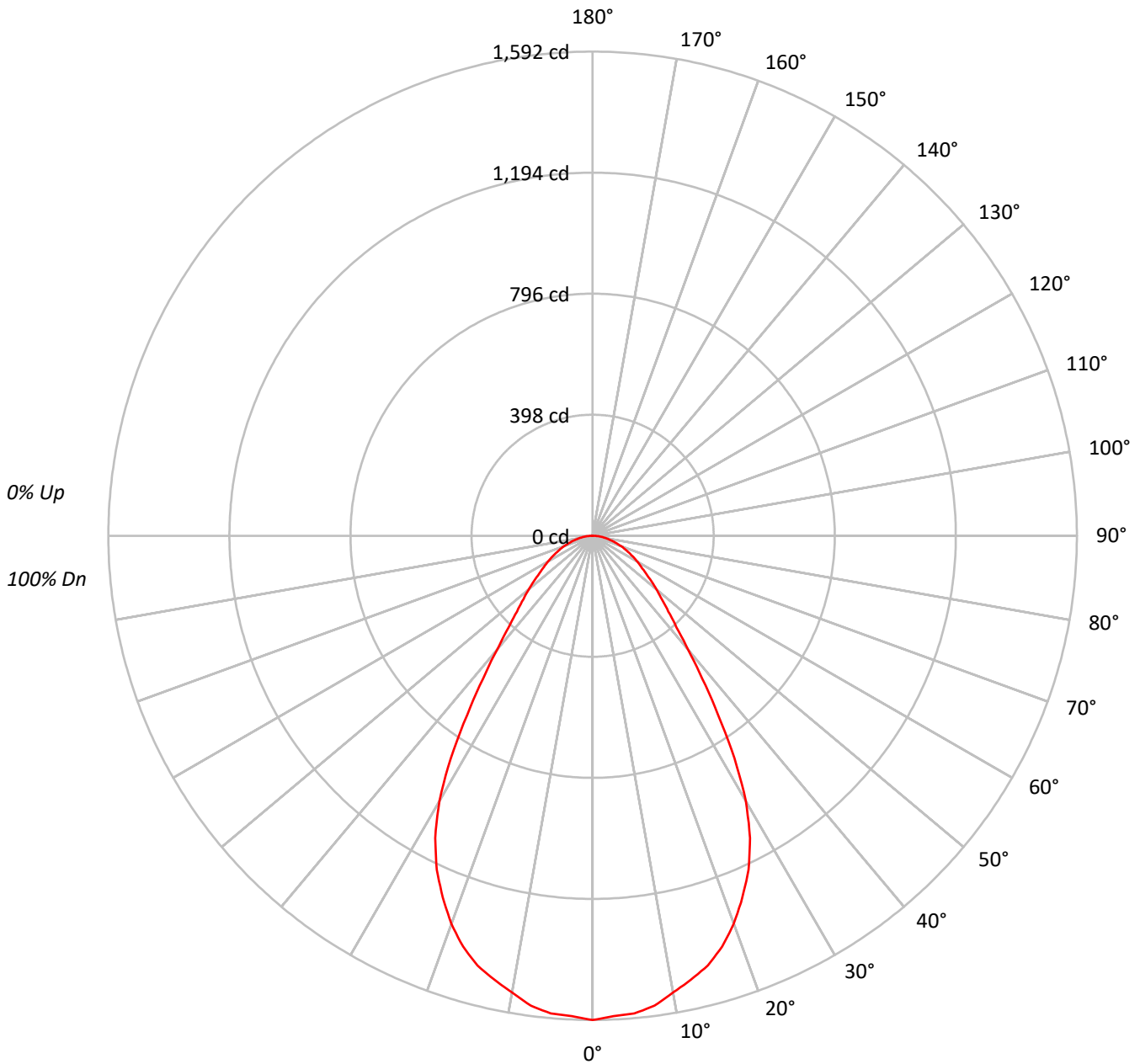
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	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°	196391
5°	195160
10°	191016
15°	186782
20°	178148
25°	164922
30°	143438
35°	108325
40°	78512
45°	61350
50°	52444
55°	45375
60°	41814
65°	38263
70°	35739
75°	32788
80°	30615
85°	29437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	6.6
10°-20°	409.7	18.1
20°-30°	551.0	24.4
30°-40°	453.1	20.0
40°-50°	278.2	12.3
50°-60°	192.6	8.5
60°-70°	131.2	5.8
70°-80°	73.1	3.2
80°-90°	23.3	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°	1109.5	49.1
0°-40°	1562.6	69.1
0°-60°	2033.4	89.9
0°-90°	2261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1592	
5°	1576	149
15°	1463	410
25°	1212	551
35°	719	453
45°	352	278
55°	211	193
65°	131	131
75°	69	73
85°	21	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1592.2
2.5°	1581.1
5°	1576.2
7.5°	1558.7
10°	1525.1
12.5°	1494.7
15°	1462.7
17.5°	1416.3
20°	1357.2
22.5°	1286.8
25°	1211.8
27.5°	1120.6
30°	1007.1
32.5°	868.1
35°	719.4
37.5°	591.5
40°	487.6
42.5°	407.7
45°	351.7
47.5°	308.6
50°	273.3
52.5°	241.4
55°	211.0
57.5°	188.7
60°	169.5
62.5°	150.3
65°	131.1
67.5°	115.0
70°	99.1
72.5°	83.1
75°	68.8
77.5°	54.3
80°	43.1
82.5°	32.0
85°	20.8
87.5°	11.2
90°	0.0



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— 0°-180°







(END OF REPORT)