

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: P580122

Luminaire Tested: **HC425D010-HM40525827-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580122
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-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: 2087.6 lumens
Efficiency: N/A
Efficacy: 77.9 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

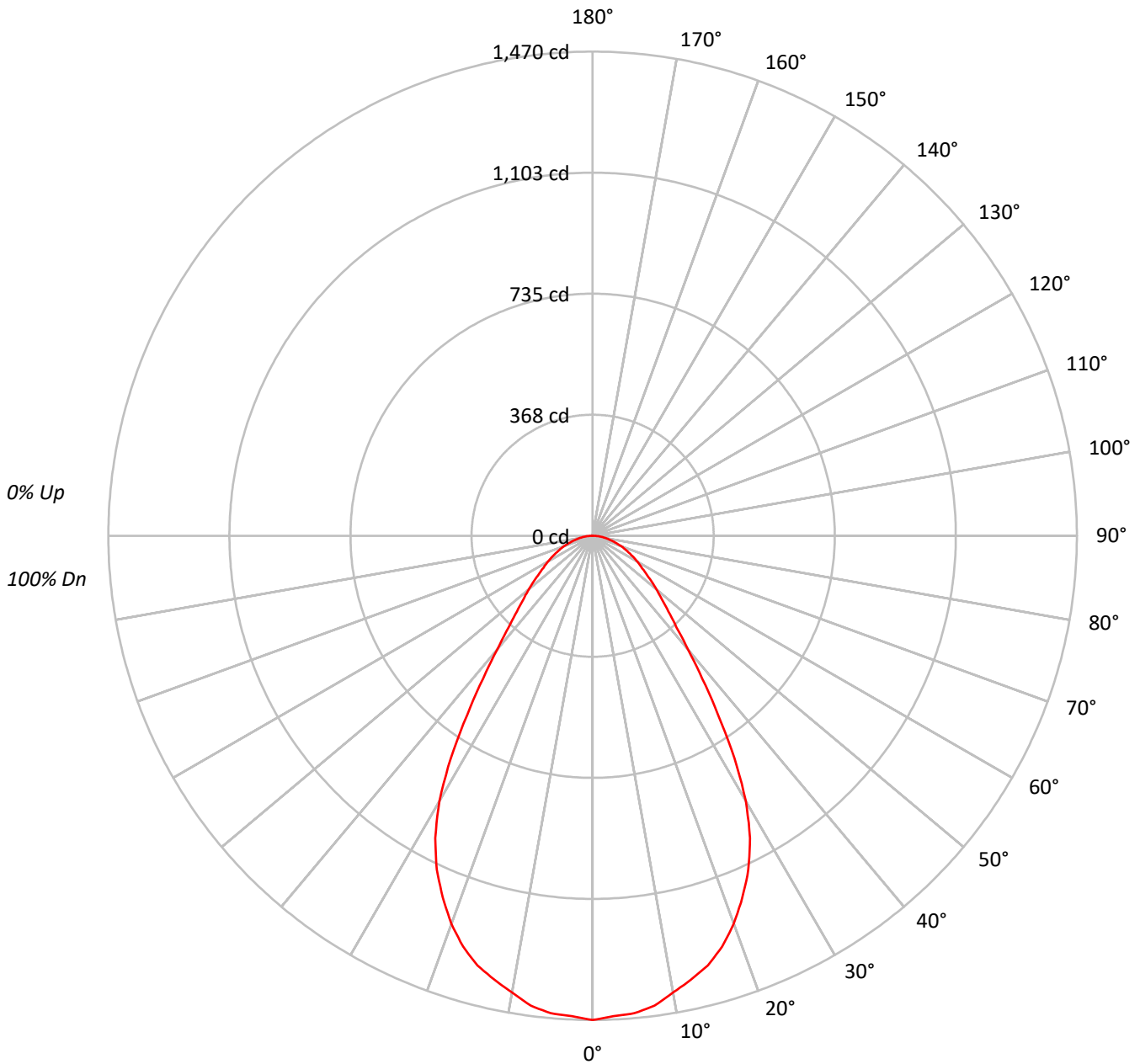
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	181330
5°	180191
10°	176362
15°	172455
20°	164484
25°	152252
30°	132429
35°	100013
40°	72473
45°	56640
50°	48414
55°	41913
60°	38607
65°	35315
70°	33034
75°	30215
80°	28342
85°	27172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	6.6
10°-20°	378.3	18.1
20°-30°	508.7	24.4
30°-40°	418.3	20.0
40°-50°	256.8	12.3
50°-60°	177.8	8.5
60°-70°	121.2	5.8
70°-80°	67.5	3.2
80°-90°	21.5	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°	1024.4	49.1
0°-40°	1442.7	69.1
0°-60°	1877.3	89.9
0°-90°	2087.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1470	
5°	1455	137
15°	1350	378
25°	1119	509
35°	664	418
45°	325	257
55°	195	178
65°	121	121
75°	63	68
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1470.1
2.5°	1459.7
5°	1455.3
7.5°	1439.0
10°	1408.1
12.5°	1380.0
15°	1350.5
17.5°	1307.7
20°	1253.1
22.5°	1188.2
25°	1118.7
27.5°	1034.6
30°	929.8
32.5°	801.5
35°	664.2
37.5°	546.1
40°	450.1
42.5°	376.4
45°	324.7
47.5°	284.8
50°	252.3
52.5°	222.9
55°	194.9
57.5°	174.2
60°	156.5
62.5°	138.8
65°	121.0
67.5°	106.2
70°	91.6
72.5°	76.8
75°	63.4
77.5°	50.1
80°	39.9
82.5°	29.5
85°	19.2
87.5°	10.4
90°	0.0



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— 0°-180°







(END OF REPORT)