

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: P580219

Luminaire Tested: **HC425D010-HM40525935-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525935-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1919.9 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

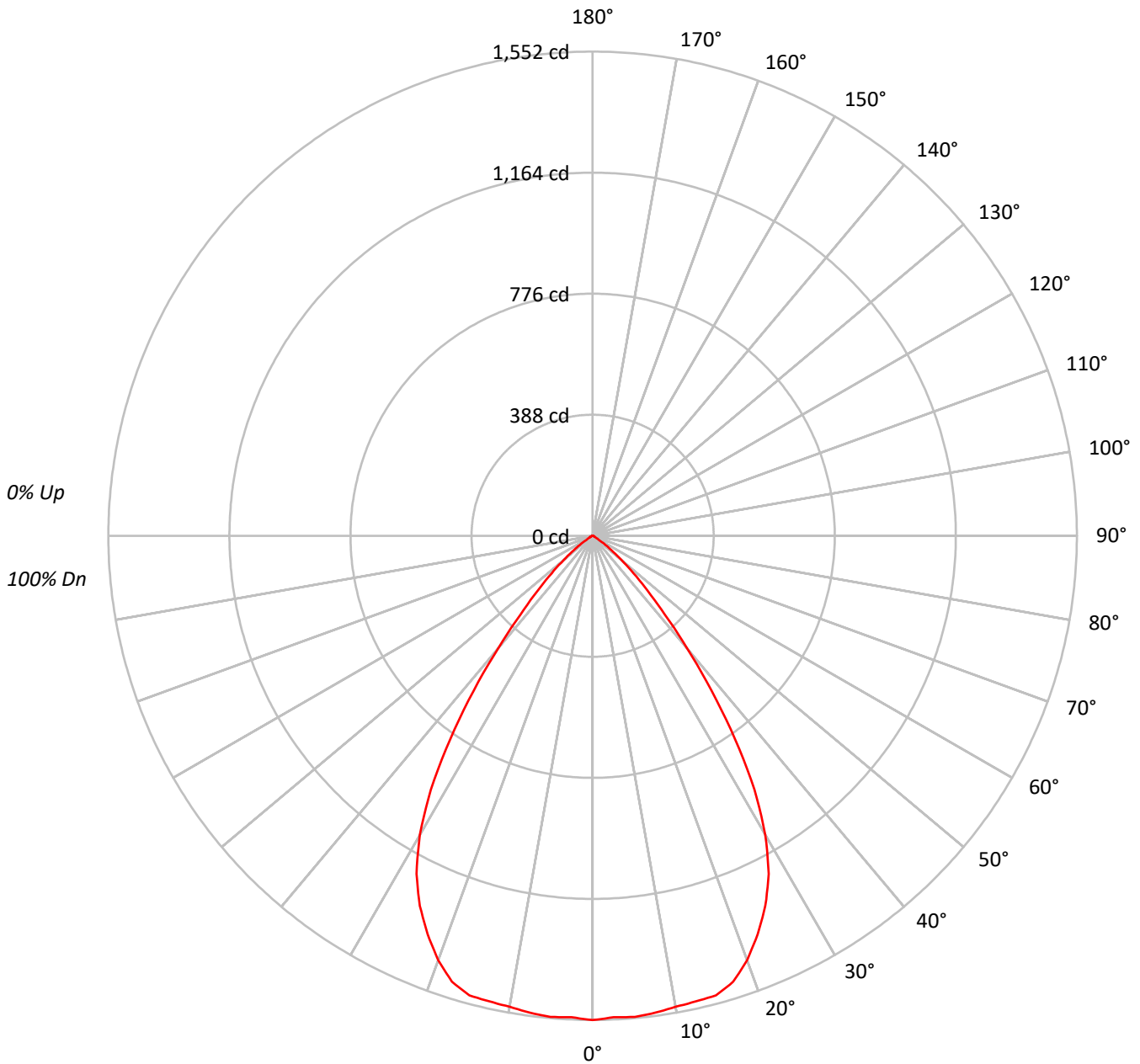
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52			52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49			49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	191469
5°	191656
10°	192018
15°	194814
20°	189962
25°	178219
30°	157653
35°	119875
40°	75533
45°	43365
50°	23008
55°	9548
60°	2566
65°	2189
70°	1587
75°	1382
80°	1065
85°	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	7.7
10°-20°	427.2	22.3
20°-30°	596.2	31.1
30°-40°	490.6	25.6
40°-50°	202.1	10.5
50°-60°	45.5	2.4
60°-70°	7.3	0.4
70°-80°	2.7	0.1
80°-90°	1.0	0.1
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°	1170.6	61.0
0°-40°	1661.2	86.5
0°-60°	1908.8	99.4
0°-90°	1919.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1552	
5°	1548	147
15°	1526	427
25°	1310	596
35°	796	491
45°	249	202
55°	44	46
65°	8	7
75°	3	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1552.3
2.5°	1544.8
5°	1547.9
7.5°	1541.9
10°	1533.1
12.5°	1528.6
15°	1525.6
17.5°	1499.0
20°	1447.2
22.5°	1382.1
25°	1309.5
27.5°	1222.3
30°	1106.9
32.5°	964.8
35°	796.1
37.5°	625.9
40°	469.1
42.5°	341.9
45°	248.6
47.5°	177.6
50°	119.9
52.5°	75.4
55°	44.4
57.5°	22.2
60°	10.4
62.5°	8.9
65°	7.5
67.5°	5.9
70°	4.4
72.5°	2.9
75°	2.9
77.5°	1.5
80°	1.5
82.5°	1.5
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)