

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: P580058

Luminaire Tested: **HC420D010-HM40525930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC420D010-HM40525930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1857.9 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

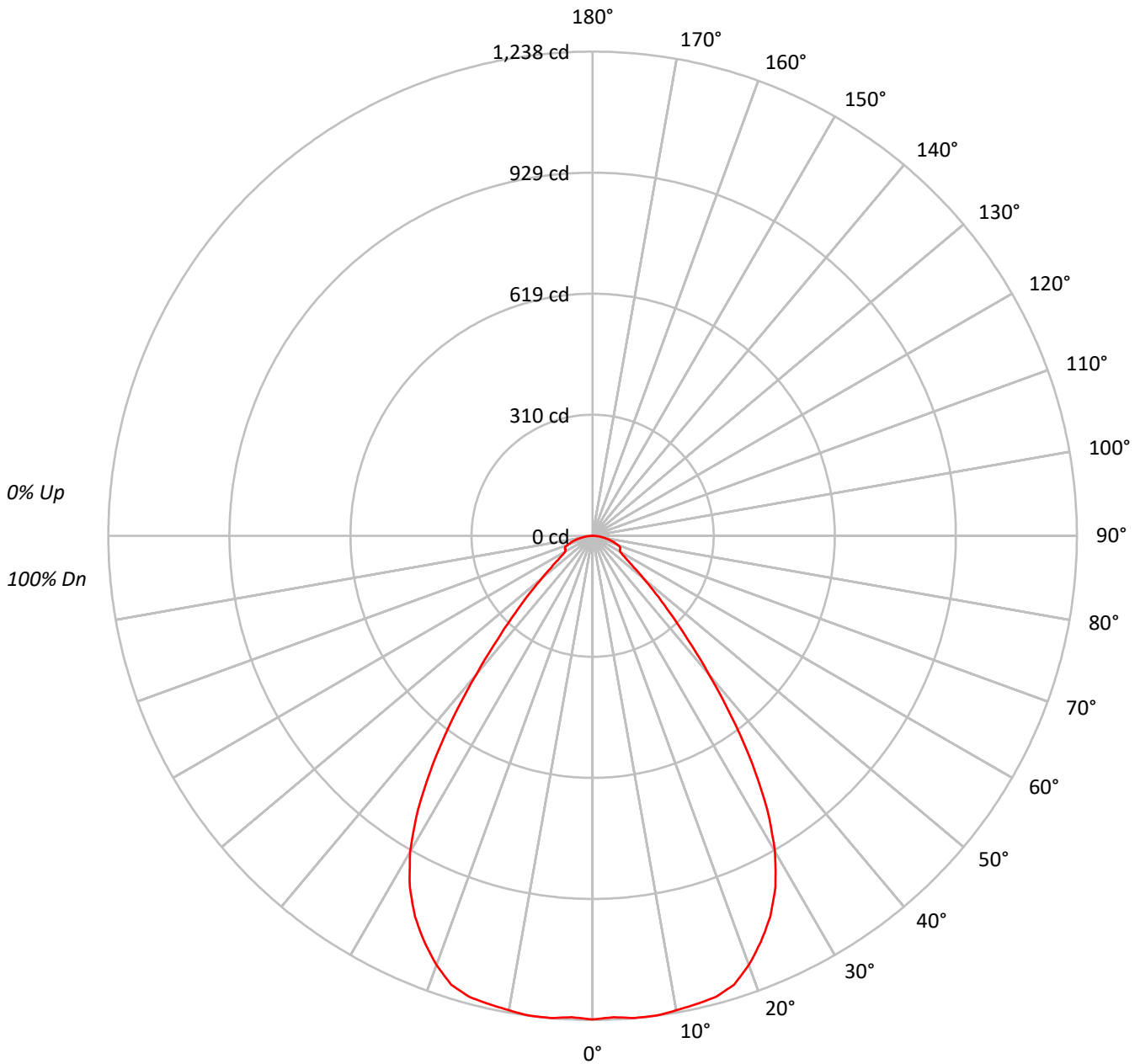
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	152529
5°	153248
10°	154306
15°	155854
20°	153248
25°	146209
30°	132828
35°	107151
40°	74341
45°	48807
50°	32698
55°	23290
60°	19883
65°	22853
70°	24487
75°	23638
80°	21239
85°	19530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	6.3
10°-20°	342.9	18.5
20°-30°	489.9	26.4
30°-40°	437.6	23.6
40°-50°	224.4	12.1
50°-60°	102.0	5.5
60°-70°	76.1	4.1
70°-80°	51.8	2.8
80°-90°	15.3	0.8
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°	950.7	51.2
0°-40°	1388.3	74.7
0°-60°	1714.8	92.3
0°-90°	1857.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1237	
5°	1238	118
15°	1220	343
25°	1074	490
35°	712	438
45°	280	224
55°	108	102
65°	78	76
75°	50	52
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1236.6
2.5°	1232.0
5°	1237.7
7.5°	1237.7
10°	1232.0
12.5°	1226.3
15°	1220.5
17.5°	1203.2
20°	1167.5
22.5°	1123.8
25°	1074.3
27.5°	1012.1
30°	932.6
32.5°	831.3
35°	711.6
37.5°	583.8
40°	461.7
42.5°	360.4
45°	279.8
47.5°	218.7
50°	170.4
52.5°	133.5
55°	108.3
57.5°	91.0
60°	80.6
62.5°	78.3
65°	78.3
67.5°	76.0
70°	67.9
72.5°	58.7
75°	49.6
77.5°	39.1
80°	29.9
82.5°	21.9
85°	13.8
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)