

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: P592674

Luminaire Tested: **HC420D010-HM40525950-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592674
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: HC420D010-HM40525950-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1629.7 lumens
Efficiency: N/A
Efficacy: 81.5 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

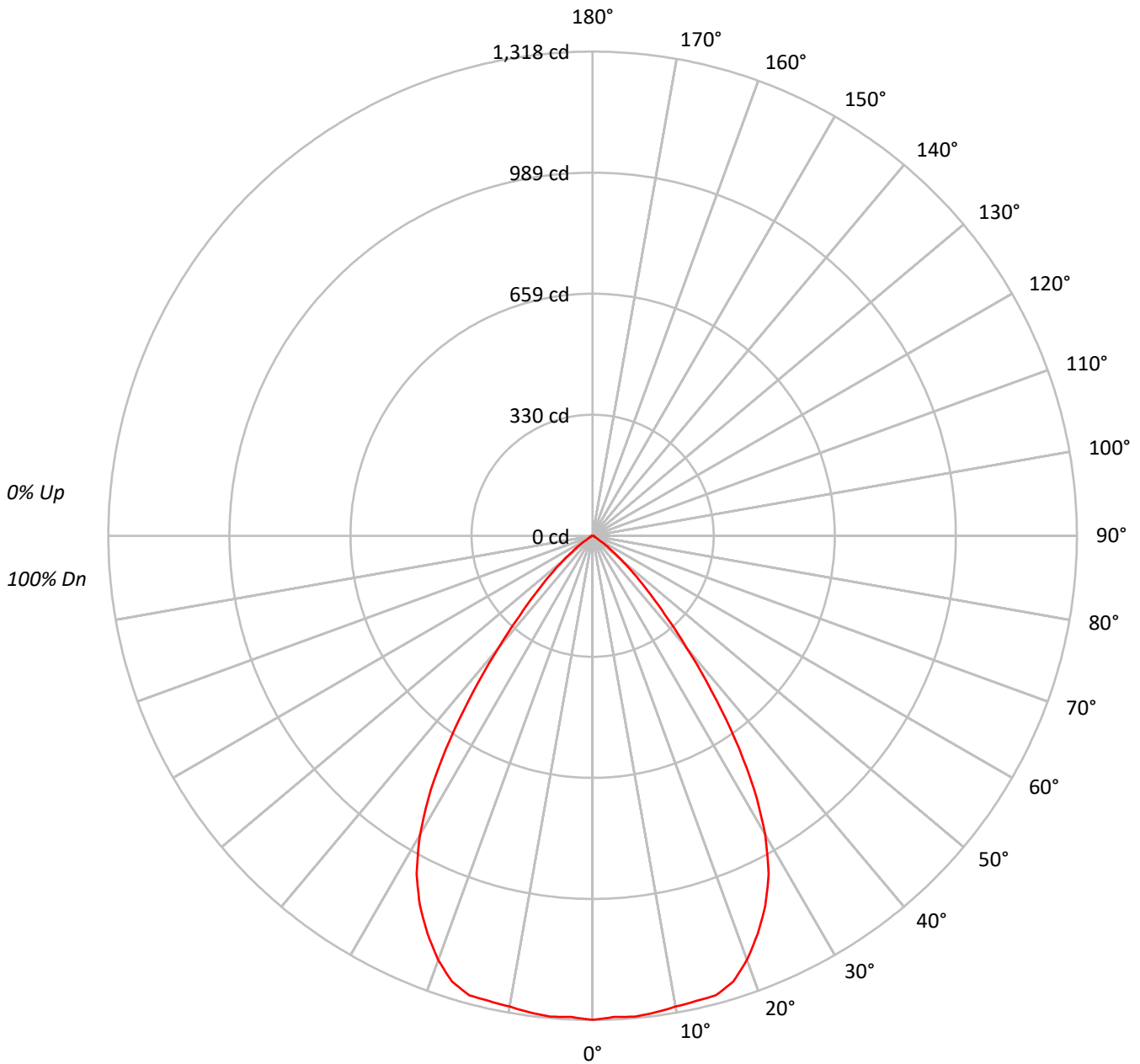
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	162520
5°	162683
10°	162986
15°	165367
20°	161242
25°	151299
30°	133810
35°	101760
40°	64101
45°	36806
50°	19515
55°	8107
60°	2171
65°	1839
70°	1370
75°	1191
80°	923
85°	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	7.7
10°-20°	362.6	22.3
20°-30°	506.1	31.1
30°-40°	416.4	25.6
40°-50°	171.5	10.5
50°-60°	38.6	2.4
60°-70°	6.2	0.4
70°-80°	2.3	0.1
80°-90°	0.9	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°	993.6	61.0
0°-40°	1410.1	86.5
0°-60°	1620.2	99.4
0°-90°	1629.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1318	
5°	1314	125
15°	1295	363
25°	1112	506
35°	676	416
45°	211	172
55°	38	39
65°	6	6
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1317.6
2.5°	1311.4
5°	1313.9
7.5°	1308.8
10°	1301.3
12.5°	1297.5
15°	1295.0
17.5°	1272.4
20°	1228.4
22.5°	1173.2
25°	1111.7
27.5°	1037.5
30°	939.5
32.5°	819.0
35°	675.8
37.5°	531.3
40°	398.1
42.5°	290.2
45°	211.0
47.5°	150.7
50°	101.7
52.5°	64.0
55°	37.7
57.5°	18.8
60°	8.8
62.5°	7.6
65°	6.3
67.5°	5.0
70°	3.8
72.5°	2.5
75°	2.5
77.5°	1.3
80°	1.3
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)