

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: P580075

Luminaire Tested: **HC420D010-HM40525935-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580075
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-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: 1572.8 lumens
Efficiency: N/A
Efficacy: 78.6 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

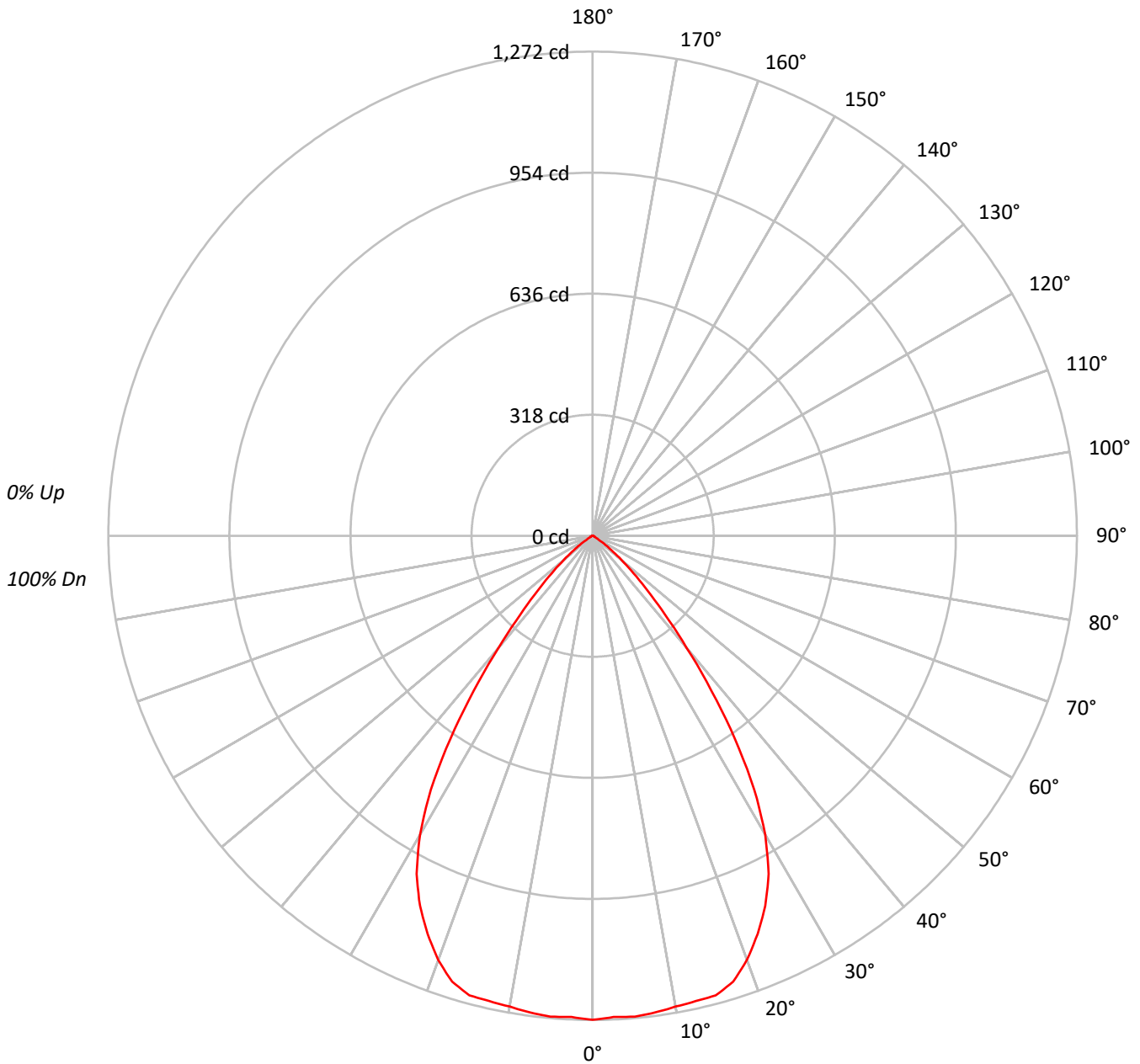
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580075

CATALOG NUMBER: HC420D010-HM40525935-41WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P580075

CATALOG NUMBER: HC420D010-HM40525935-41WDBB

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	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156846
5°	157000
10°	157300
15°	159595
20°	155611
25°	146005
30°	129139
35°	98206
40°	61862
45°	35533
50°	18844
55°	7828
60°	2097
65°	1780
70°	1334
75°	1144
80°	923
85°	1840



TEST NUMBER: P580075

CATALOG NUMBER: HC420D010-HM40525935-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	7.7
10°-20°	350.0	22.3
20°-30°	488.4	31.1
30°-40°	401.9	25.6
40°-50°	165.5	10.5
50°-60°	37.3	2.4
60°-70°	6.0	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°	958.9	61.0
0°-40°	1360.8	86.5
0°-60°	1563.7	99.4
0°-90°	1572.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1272	
5°	1268	121
15°	1250	350
25°	1073	488
35°	652	402
45°	204	166
55°	36	37
65°	6	6
75°	2	2
85°	1	1
90°	0	



TEST NUMBER: P580075

CATALOG NUMBER: HC420D010-HM40525935-41WDBB

CANDELA DISTRIBUTION (FULL):

0°	
0°	1271.6
2.5°	1265.5
5°	1268.0
7.5°	1263.1
10°	1255.9
12.5°	1252.2
15°	1249.8
17.5°	1228.0
20°	1185.5
22.5°	1132.2
25°	1072.8
27.5°	1001.3
30°	906.7
32.5°	790.4
35°	652.2
37.5°	512.7
40°	384.2
42.5°	280.0
45°	203.7
47.5°	145.4
50°	98.2
52.5°	61.8
55°	36.4
57.5°	18.2
60°	8.5
62.5°	7.2
65°	6.1
67.5°	4.8
70°	3.7
72.5°	2.4
75°	2.4
77.5°	1.3
80°	1.3
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)