

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: P580597

Luminaire Tested: **HC440D010-HM43040840-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580597
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: HC440D010-HM43040840-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3699.3 lumens
Efficiency: N/A
Efficacy: 90.2 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

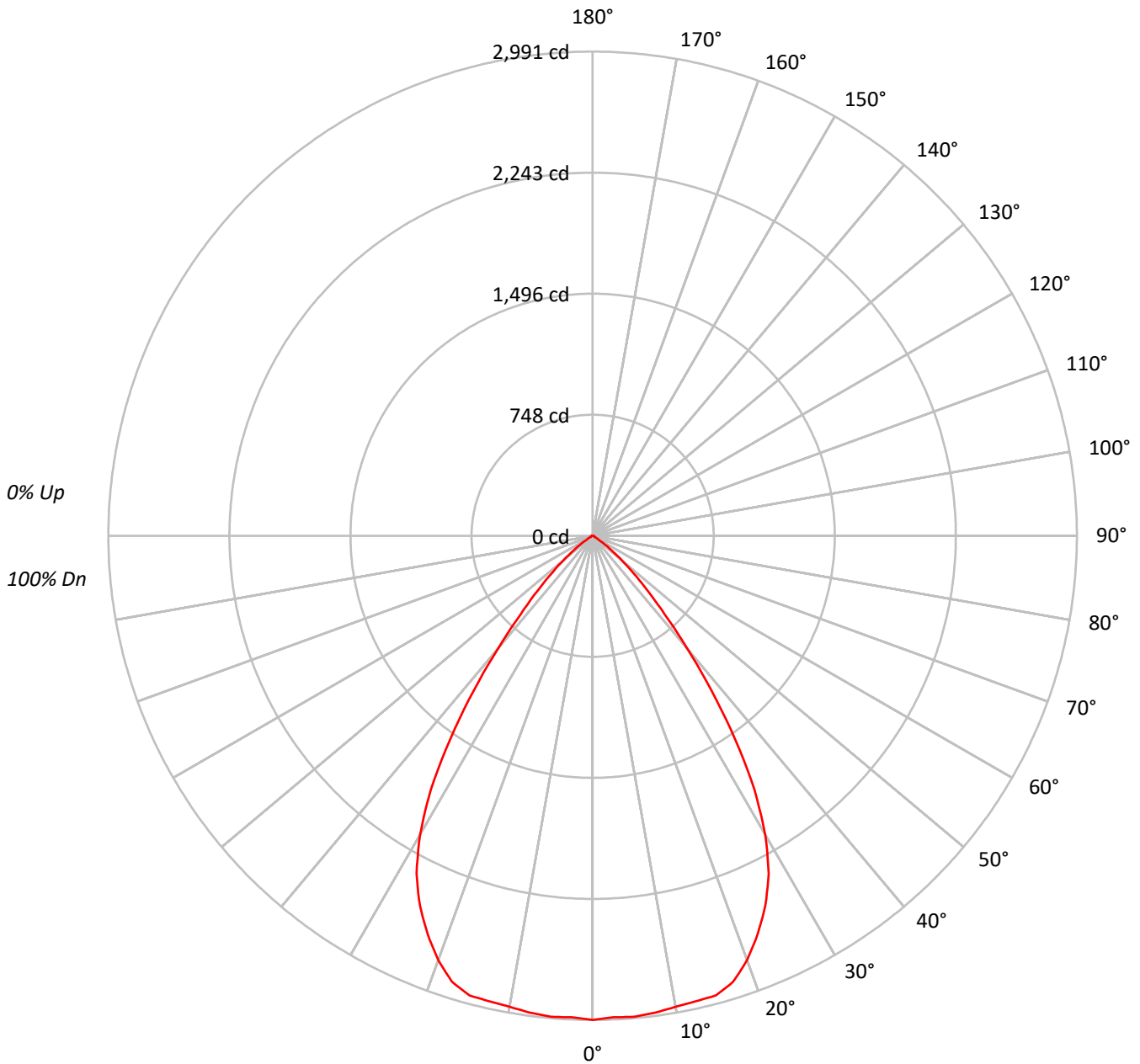
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	368939
5°	369271
10°	369971
15°	375390
20°	366036
25°	343427
30°	303769
35°	230985
40°	145543
45°	83555
50°	44308
55°	18386
60°	4934
65°	4144
70°	3065
75°	2716
80°	1989
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	7.7
10°-20°	823.1	22.3
20°-30°	1148.8	31.1
30°-40°	945.3	25.6
40°-50°	389.4	10.5
50°-60°	87.7	2.4
60°-70°	14.1	0.4
70°-80°	5.2	0.1
80°-90°	1.9	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°	2255.6	61.0
0°-40°	3200.9	86.5
0°-60°	3678.1	99.4
0°-90°	3699.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3699.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2991	
5°	2982	284
15°	2940	823
25°	2523	1149
35°	1534	945
45°	479	389
55°	86	88
65°	14	14
75°	6	5
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2991.1
2.5°	2976.7
5°	2982.4
7.5°	2971.1
10°	2953.9
12.5°	2945.4
15°	2939.7
17.5°	2888.4
20°	2788.6
22.5°	2663.2
25°	2523.4
27.5°	2355.2
30°	2132.8
32.5°	1859.1
35°	1534.0
37.5°	1206.1
40°	903.9
42.5°	658.7
45°	479.0
47.5°	342.1
50°	230.9
52.5°	145.4
55°	85.5
57.5°	42.8
60°	20.0
62.5°	17.2
65°	14.2
67.5°	11.4
70°	8.5
72.5°	5.7
75°	5.7
77.5°	2.8
80°	2.8
82.5°	2.8
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)