

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: P580637

Luminaire Tested: **HC440D010-HM43040930-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040930-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3721.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

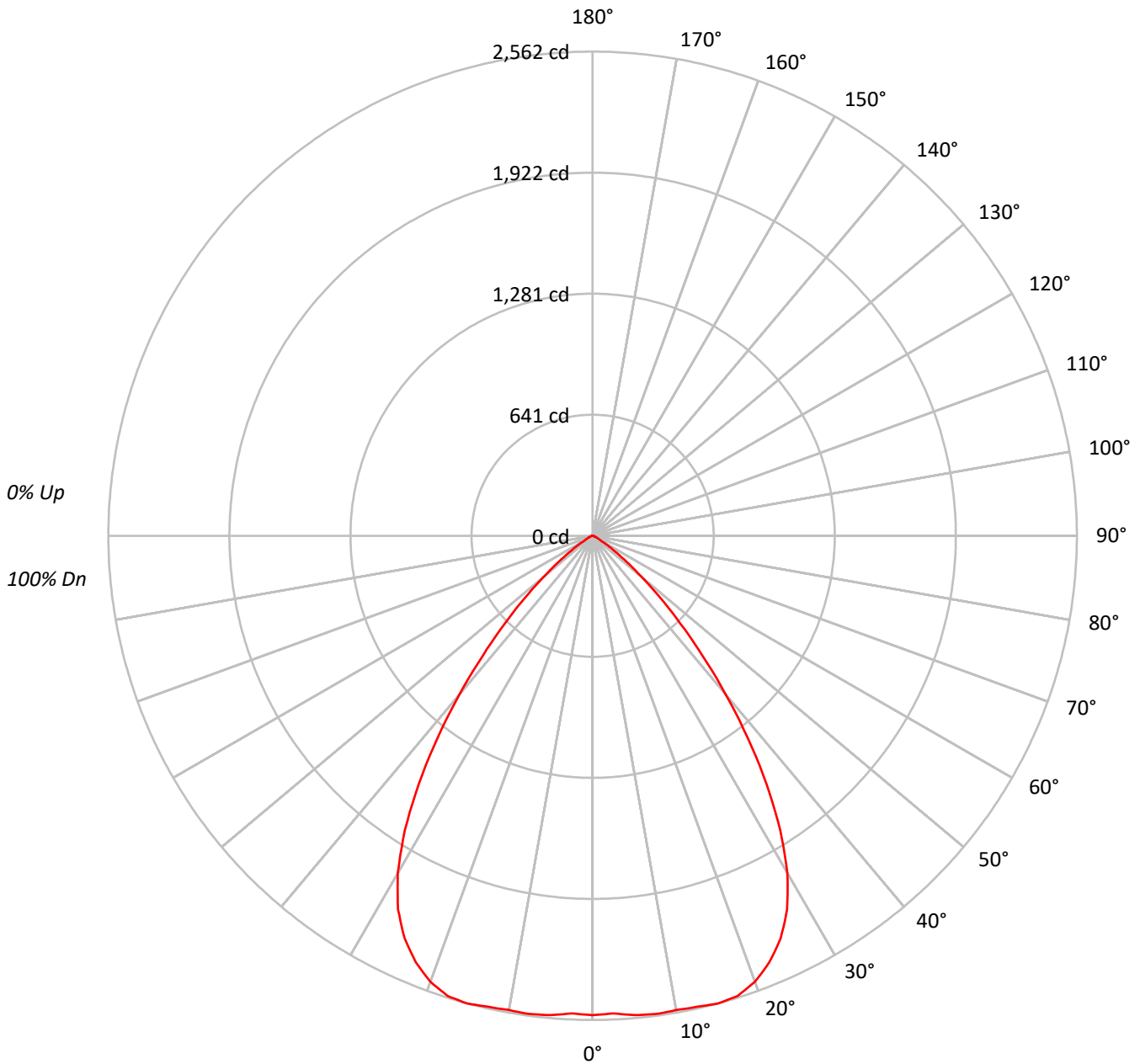
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58			58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	312879
5°	315225
10°	319171
15°	327185
20°	329585
25°	320154
30°	293543
35°	241526
40°	176055
45°	114274
50°	64418
55°	30601
60°	12088
65°	7501
70°	5049
75°	3336
80°	1705
85°	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	6.5
10°-20°	722.3	19.4
20°-30°	1071.4	28.8
30°-40°	989.6	26.6
40°-50°	516.7	13.9
50°-60°	141.7	3.8
60°-70°	27.3	0.7
70°-80°	7.7	0.2
80°-90°	1.6	0.0
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°	2036.8	54.7
0°-40°	3026.4	81.3
0°-60°	3684.8	99.0
0°-90°	3721.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3721.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2537	
5°	2546	243
15°	2562	722
25°	2352	1071
35°	1604	990
45°	655	517
55°	142	142
65°	26	27
75°	7	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2536.6
2.5°	2529.5
5°	2545.9
7.5°	2552.9
10°	2548.3
12.5°	2552.9
15°	2562.2
17.5°	2552.9
20°	2510.9
22.5°	2443.3
25°	2352.4
27.5°	2228.8
30°	2061.0
32.5°	1848.8
35°	1604.0
37.5°	1347.6
40°	1093.4
42.5°	860.3
45°	655.1
47.5°	480.2
50°	335.7
52.5°	223.9
55°	142.3
57.5°	84.0
60°	49.0
62.5°	35.0
65°	25.7
67.5°	18.6
70°	14.0
72.5°	9.3
75°	7.0
77.5°	4.7
80°	2.4
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)