

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: P580564

Luminaire Tested: **HC440D010-HM43040830-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040830-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3772.8 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

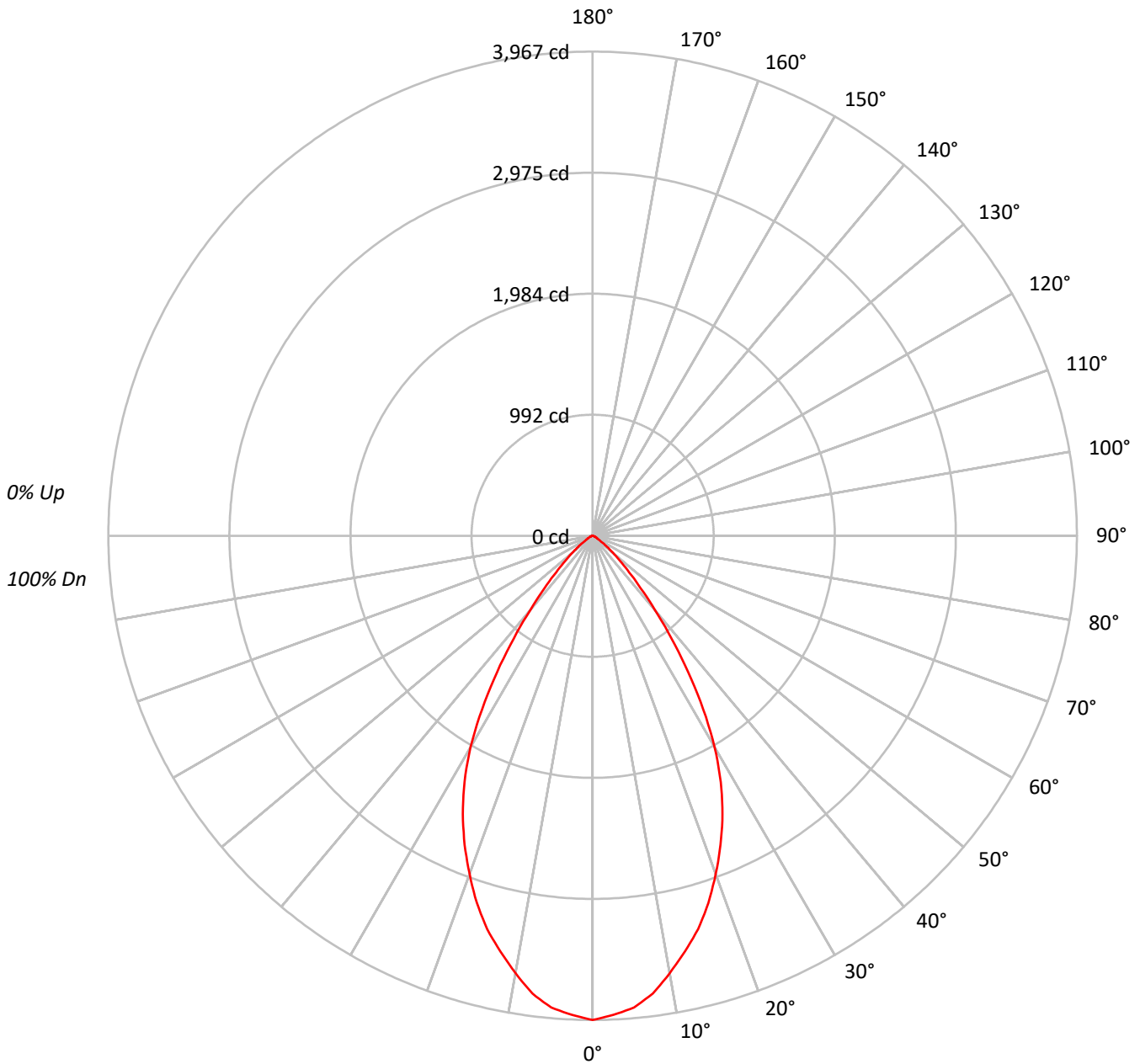
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63			63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	489349
5°	480446
10°	455716
15°	426111
20°	386999
25°	342460
30°	284855
35°	205402
40°	128185
45°	73961
50°	41717
55°	19870
60°	11397
65°	8727
70°	5878
75°	3908
80°	3836
85°	3821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	9.6
10°-20°	930.9	24.7
20°-30°	1144.9	30.3
30°-40°	850.3	22.5
40°-50°	345.7	9.2
50°-60°	95.7	2.5
60°-70°	29.8	0.8
70°-80°	10.0	0.3
80°-90°	2.9	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°	2438.5	64.6
0°-40°	3288.7	87.2
0°-60°	3730.1	98.9
0°-90°	3772.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3967	
5°	3880	363
15°	3337	931
25°	2516	1145
35°	1364	850
45°	424	346
55°	92	96
65°	30	30
75°	8	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3967.3
2.5°	3929.3
5°	3880.3
7.5°	3782.6
10°	3638.5
12.5°	3489.1
15°	3336.9
17.5°	3154.8
20°	2948.3
22.5°	2739.1
25°	2516.3
27.5°	2274.4
30°	2000.0
32.5°	1687.4
35°	1364.1
37.5°	1059.8
40°	796.1
42.5°	581.5
45°	424.0
47.5°	304.4
50°	217.4
52.5°	149.4
55°	92.4
57.5°	59.7
60°	46.2
62.5°	38.0
65°	29.9
67.5°	21.7
70°	16.3
72.5°	13.6
75°	8.2
77.5°	5.4
80°	5.4
82.5°	2.7
85°	2.7
87.5°	2.7
90°	0.0



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— 0°-180°







(END OF REPORT)