

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: P582416

Luminaire Tested: **HC640D010-HM63040827-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040827-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4002.2 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

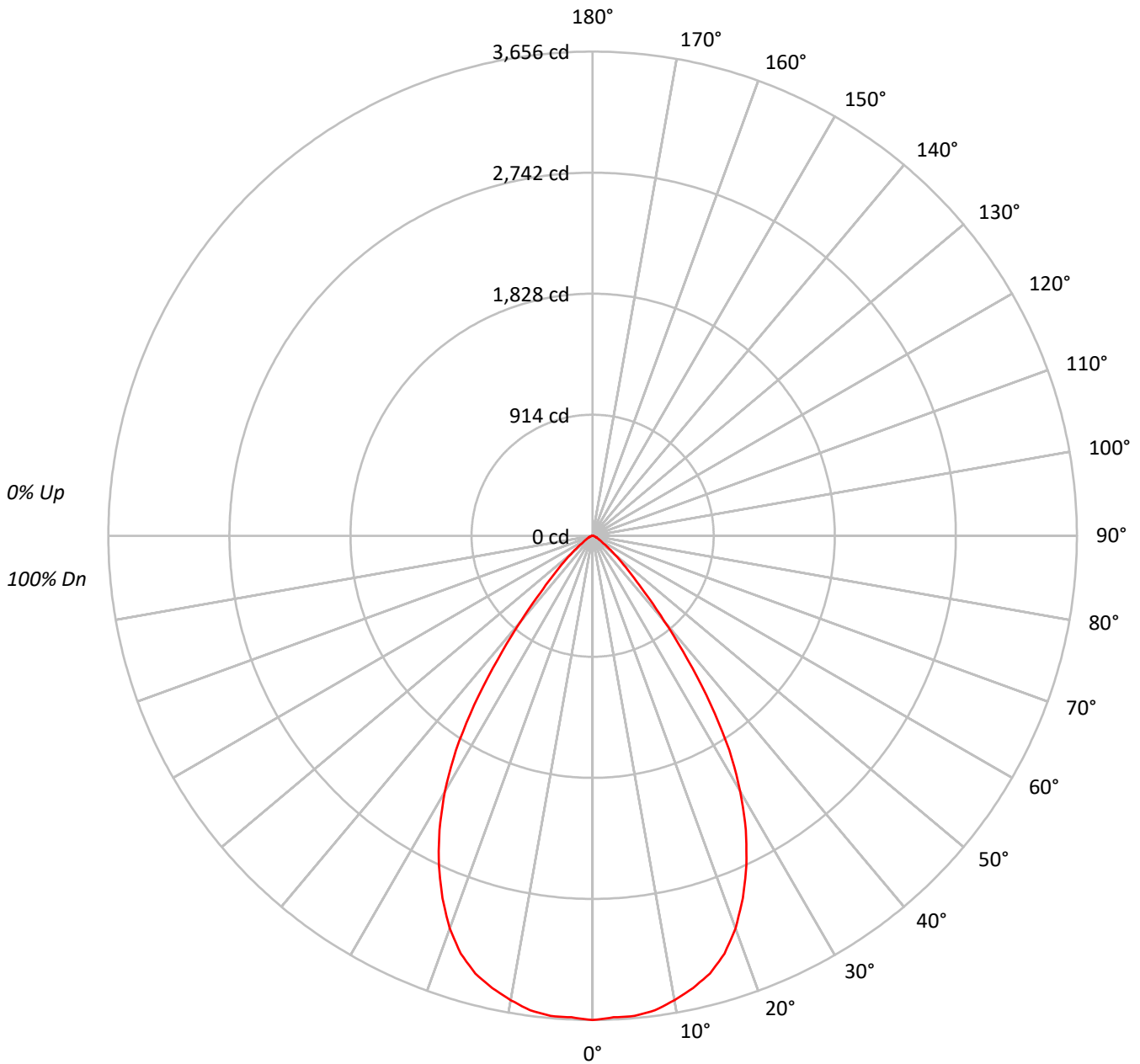
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	200450
5°	200280
10°	198193
15°	194207
20°	183970
25°	166135
30°	141129
35°	104193
40°	60256
45°	31988
50°	18080
55°	9452
60°	6195
65°	4397
70°	3174
75°	2393
80°	1799
85°	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	8.6
10°-20°	957.1	23.9
20°-30°	1249.2	31.2
30°-40°	954.6	23.9
40°-50°	345.6	8.6
50°-60°	100.4	2.5
60°-70°	35.9	0.9
70°-80°	12.3	0.3
80°-90°	2.3	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°	2551.2	63.7
0°-40°	3505.8	87.6
0°-60°	3951.8	98.7
0°-90°	4002.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4002.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3656	
5°	3640	345
15°	3422	957
25°	2747	1249
35°	1557	955
45°	413	346
55°	99	100
65°	34	36
75°	11	12
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3656.5
2.5°	3639.5
5°	3639.5
7.5°	3614.1
10°	3560.4
12.5°	3498.3
15°	3421.9
17.5°	3308.8
20°	3153.5
22.5°	2961.3
25°	2746.6
27.5°	2503.6
30°	2229.5
32.5°	1921.5
35°	1556.9
37.5°	1175.5
40°	842.0
42.5°	582.1
45°	412.6
47.5°	296.6
50°	212.0
52.5°	149.7
55°	98.9
57.5°	70.7
60°	56.5
62.5°	45.2
65°	33.9
67.5°	28.2
70°	19.8
72.5°	14.1
75°	11.3
77.5°	8.4
80°	5.7
82.5°	2.8
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)