

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: P582446

Luminaire Tested: **HC640D010-HM63040830-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040830-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4766.3 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

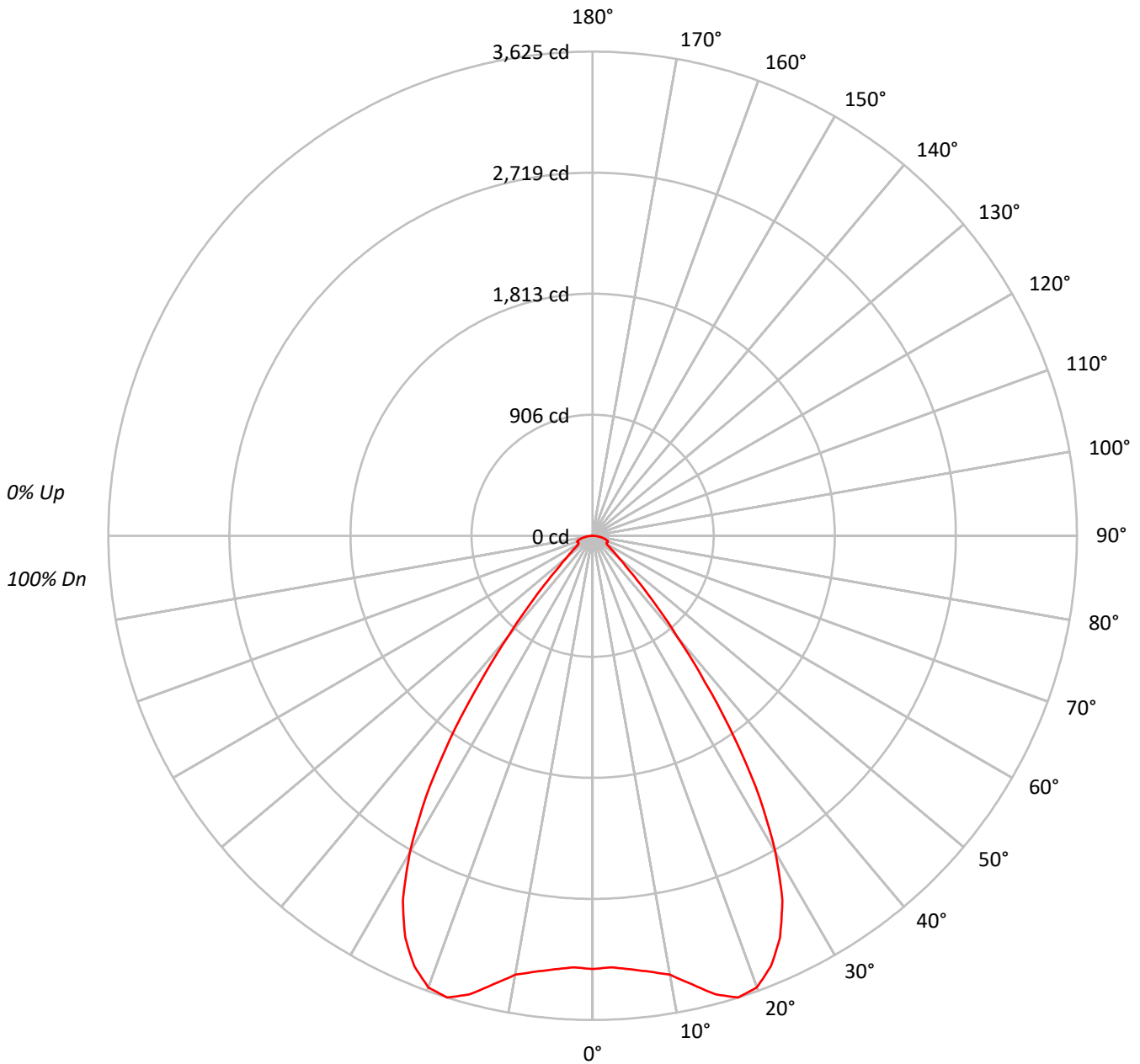
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	177771
5°	179281
10°	185740
15°	201761
20°	209861
25°	200733
30°	173236
35°	124738
40°	70267
45°	36415
50°	21714
55°	15646
60°	13288
65°	15332
70°	19426
75°	20524
80°	20110
85°	19058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	6.6
10°-20°	1002.7	21.0
20°-30°	1498.6	31.4
30°-40°	1145.6	24.0
40°-50°	400.1	8.4
50°-60°	152.5	3.2
60°-70°	119.6	2.5
70°-80°	101.1	2.1
80°-90°	32.6	0.7
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°	2814.8	59.1
0°-40°	3960.4	83.1
0°-60°	4513.0	94.7
0°-90°	4766.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3243	
5°	3258	313
15°	3555	1003
25°	3319	1499
35°	1864	1146
45°	470	400
55°	164	152
65°	118	120
75°	97	101
85°	30	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3242.8
2.5°	3233.7
5°	3257.9
7.5°	3291.3
10°	3336.7
12.5°	3439.8
15°	3555.0
17.5°	3624.6
20°	3597.3
22.5°	3488.2
25°	3318.6
27.5°	3076.0
30°	2736.7
32.5°	2330.5
35°	1863.9
37.5°	1381.9
40°	981.9
42.5°	688.0
45°	469.7
47.5°	330.3
50°	254.6
52.5°	200.0
55°	163.7
57.5°	133.4
60°	121.2
62.5°	118.2
65°	118.2
67.5°	124.2
70°	121.2
72.5°	112.1
75°	96.9
77.5°	81.8
80°	63.7
82.5°	45.5
85°	30.3
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)