

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: P593287

Luminaire Tested: **HC640D010-HM63040950-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593287
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-HM63040950-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4532.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

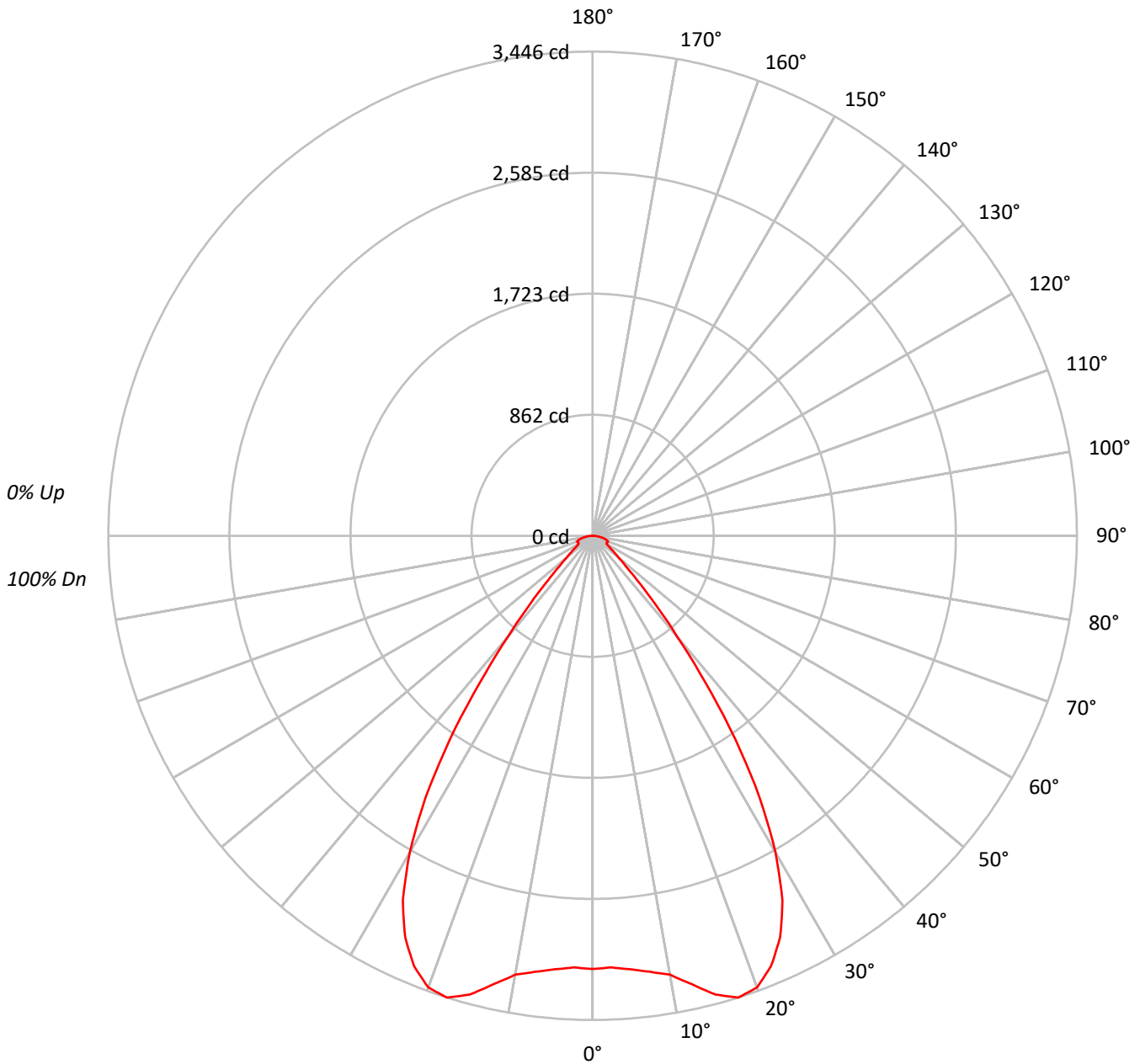
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	169027
5°	170471
10°	176611
15°	191840
20°	199541
25°	190862
30°	164715
35°	118601
40°	66811
45°	34624
50°	20639
55°	14872
60°	12642
65°	14580
70°	18481
75°	19529
80°	19100
85°	18115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.1	6.6
10°-20°	953.4	21.0
20°-30°	1425.0	31.4
30°-40°	1089.2	24.0
40°-50°	380.4	8.4
50°-60°	145.0	3.2
60°-70°	113.8	2.5
70°-80°	96.2	2.1
80°-90°	31.0	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°	2676.4	59.1
0°-40°	3765.6	83.1
0°-60°	4291.1	94.7
0°-90°	4532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4532.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3083	
5°	3098	298
15°	3380	953
25°	3155	1425
35°	1772	1089
45°	447	380
55°	156	145
65°	112	114
75°	92	96
85°	29	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3083.3
2.5°	3074.7
5°	3097.8
7.5°	3129.5
10°	3172.7
12.5°	3270.6
15°	3380.2
17.5°	3446.4
20°	3420.4
22.5°	3316.8
25°	3155.4
27.5°	2924.9
30°	2602.1
32.5°	2215.9
35°	1772.2
37.5°	1314.0
40°	933.6
42.5°	654.1
45°	446.6
47.5°	314.1
50°	242.0
52.5°	190.2
55°	155.6
57.5°	126.8
60°	115.3
62.5°	112.4
65°	112.4
67.5°	118.2
70°	115.3
72.5°	106.6
75°	92.2
77.5°	77.8
80°	60.5
82.5°	43.3
85°	28.8
87.5°	11.5
90°	0.0



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— 0°-180°







(END OF REPORT)