

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: P583081

Luminaire Tested: **HC655D010-HM64560930-61MDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560930-61MDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5298.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

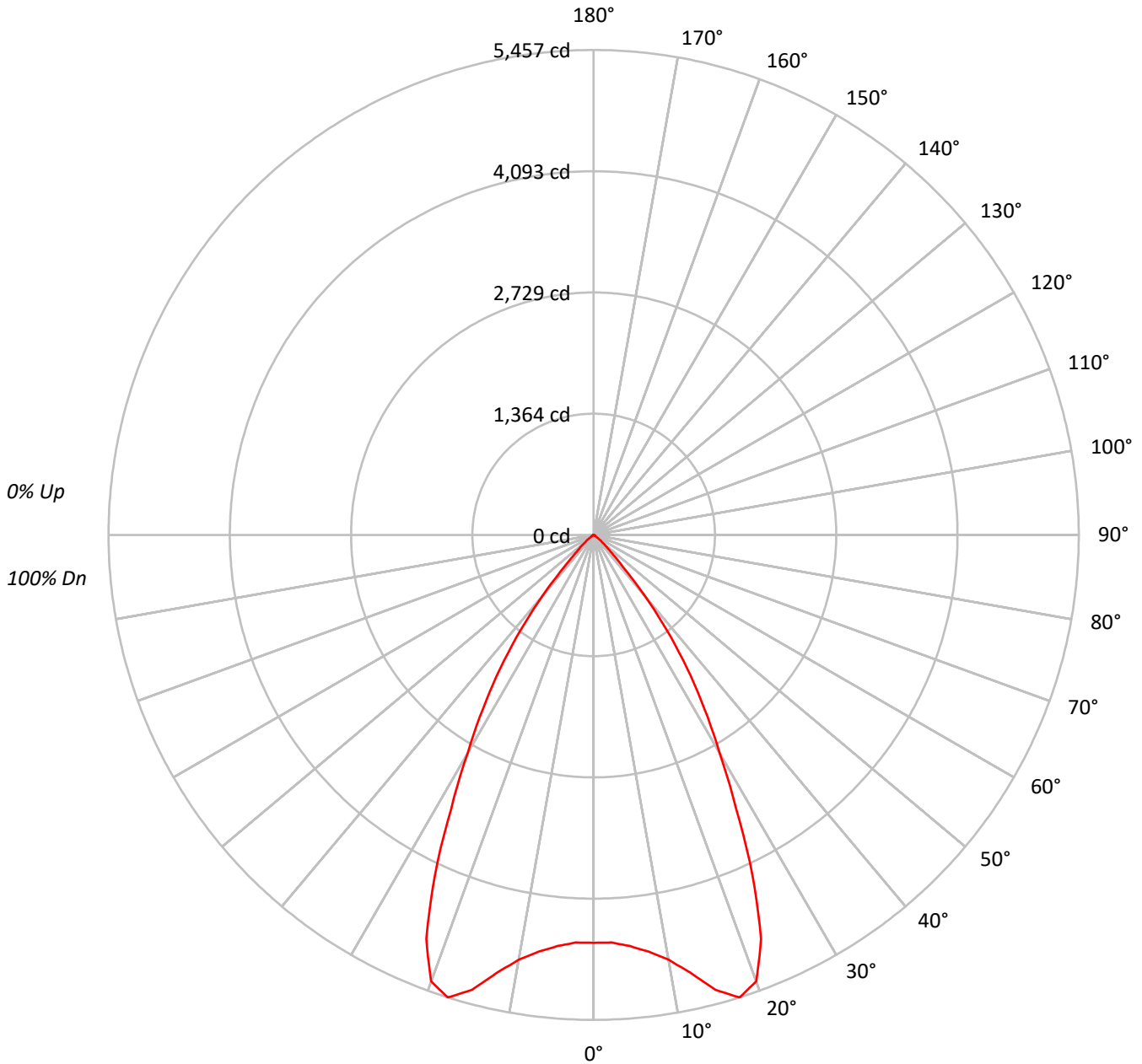
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	251614
5°	255530
10°	270080
15°	300728
20°	311860
25°	255880
30°	179300
35°	122329
40°	63719
45°	22405
50°	10030
55°	3211
60°	1842
65°	1310
70°	1074
75°	699
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.8	8.5
10°-20°	1490.2	28.1
20°-30°	1897.4	35.8
30°-40°	1130.8	21.3
40°-50°	274.2	5.2
50°-60°	42.1	0.8
60°-70°	10.4	0.2
70°-80°	3.5	0.1
80°-90°	0.0	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°	3837.4	72.4
0°-40°	4968.3	93.8
0°-60°	5284.6	99.7
0°-90°	5298.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5298.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4590	
5°	4644	450
15°	5299	1490
25°	4230	1897
35°	1828	1131
45°	289	274
55°	34	42
65°	10	10
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4589.8
2.5°	4589.8
5°	4643.5
7.5°	4727.5
10°	4851.8
12.5°	5046.7
15°	5298.8
17.5°	5456.7
20°	5345.7
22.5°	4919.0
25°	4230.3
27.5°	3470.9
30°	2832.5
32.5°	2315.0
35°	1827.9
37.5°	1347.3
40°	890.4
42.5°	480.5
45°	289.0
47.5°	181.5
50°	117.6
52.5°	70.5
55°	33.6
57.5°	20.1
60°	16.8
62.5°	13.5
65°	10.1
67.5°	6.7
70°	6.7
72.5°	3.3
75°	3.3
77.5°	3.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)