

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: P583127

Luminaire Tested: **HC655D010-HM64560940-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560940-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5656.2 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

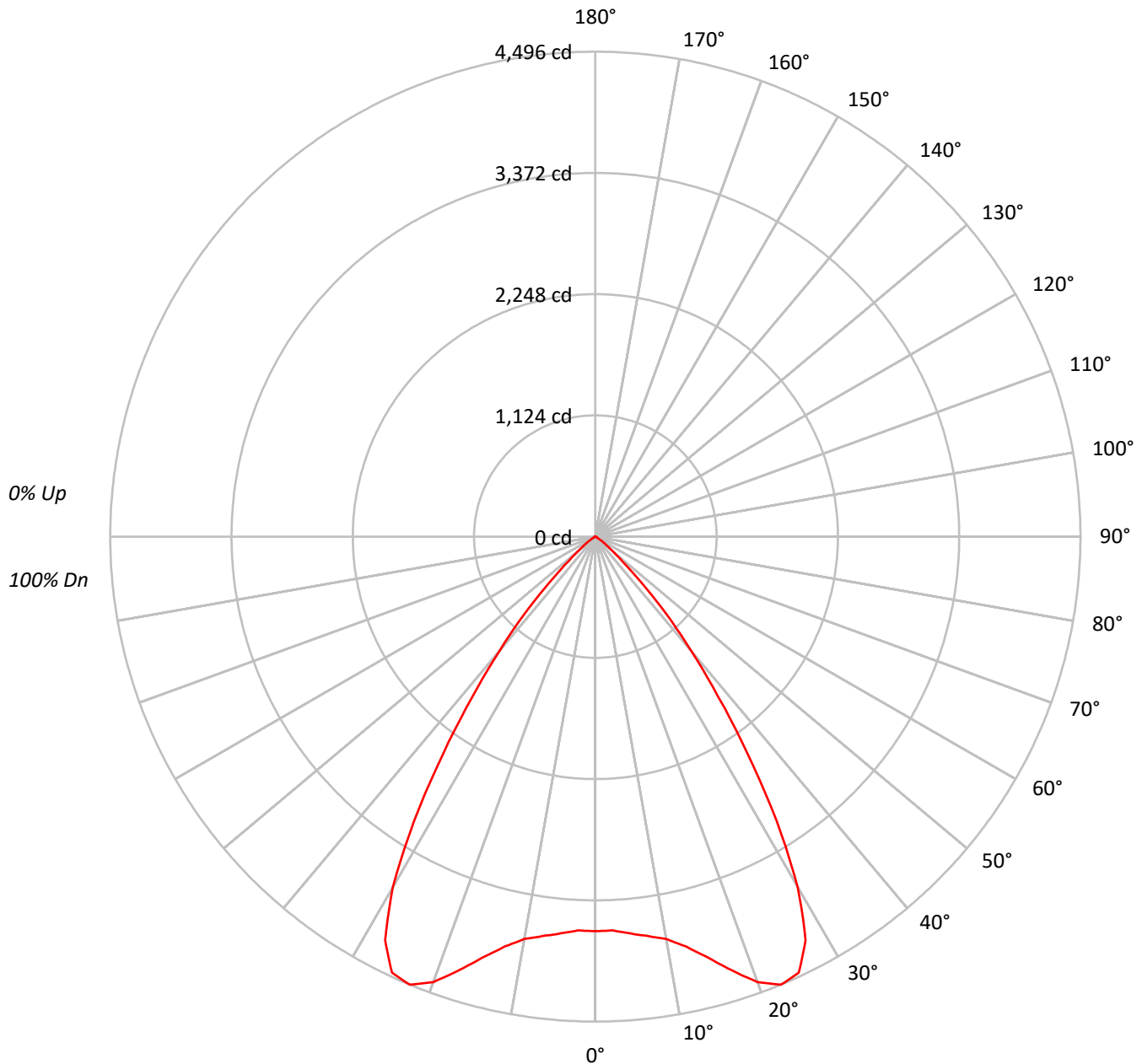
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	82		88	84	81		85
4	95	87	81	77	93	86	80	76	84	79	75		82	78	74		80
5	90	81	75	70	88	80	74	70	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	63	59	79	69	63	59	68	62	58		67	62	58		66
8	76	65	59	54	74	65	59	54	64	58	54		62	57	54		61
9	71	61	55	50	70	60	54	50	60	54	50		59	53	50		58
10	68	57	51	47	67	57	51	47	56	50	46		55	50	46		54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	200521
5°	203219
10°	210840
15°	229292
20°	256356
25°	269834
30°	237537
35°	164758
40°	98384
45°	46765
50°	17645
55°	7369
60°	2313
65°	1829
70°	1122
75°	741
80°	1105
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	6.3
10°-20°	1160.1	20.5
20°-30°	1987.8	35.1
30°-40°	1543.8	27.3
40°-50°	510.4	9.0
50°-60°	78.3	1.4
60°-70°	13.8	0.2
70°-80°	5.1	0.1
80°-90°	1.4	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°	3503.4	61.9
0°-40°	5047.2	89.2
0°-60°	5635.8	99.6
0°-90°	5656.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5656.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3658	
5°	3693	355
15°	4040	1160
25°	4461	1988
35°	2462	1544
45°	603	510
55°	77	78
65°	14	14
75°	4	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3657.8
2.5°	3654.3
5°	3692.9
7.5°	3735.0
10°	3787.6
12.5°	3892.8
15°	4040.1
17.5°	4218.9
20°	4394.3
22.5°	4496.0
25°	4461.0
27.5°	4218.9
30°	3752.5
32.5°	3124.8
35°	2461.9
37.5°	1869.3
40°	1374.8
42.5°	971.5
45°	603.2
47.5°	336.7
50°	206.9
52.5°	126.2
55°	77.1
57.5°	38.6
60°	21.1
62.5°	17.5
65°	14.1
67.5°	10.5
70°	7.0
72.5°	7.0
75°	3.5
77.5°	3.5
80°	3.5
82.5°	3.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)