

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: P583037

Luminaire Tested: **HC655D010-HM64560835-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583037
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-HM64560835-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6155.9 lumens
Efficiency: N/A
Efficacy: 118.4 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

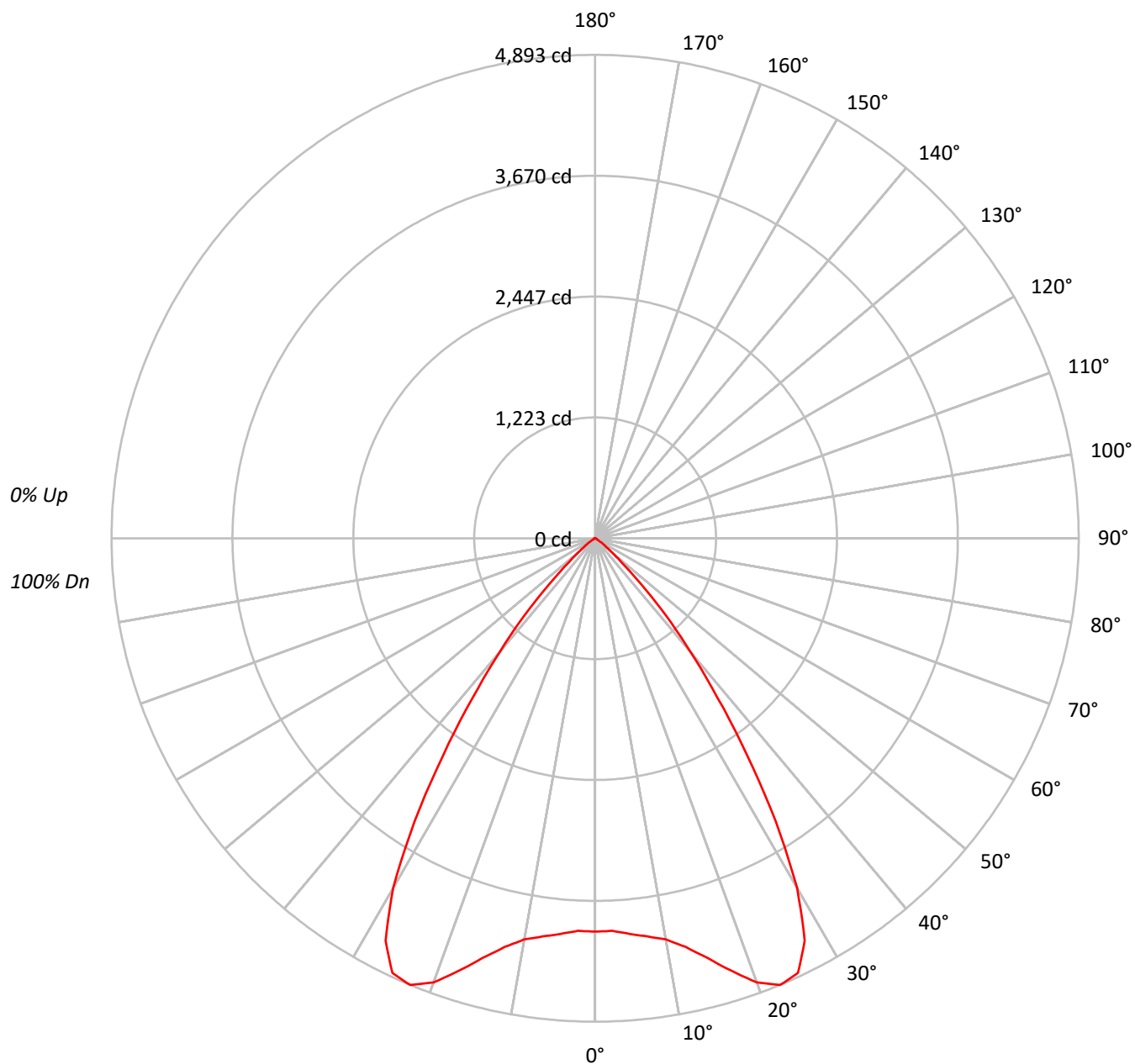
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	218239
5°	221169
10°	229466
15°	249547
20°	279003
25°	293666
30°	258527
35°	179320
40°	107079
45°	50889
50°	19206
55°	8028
60°	2522
65°	1985
70°	1234
75°	805
80°	1200
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.8	6.3
10°-20°	1262.6	20.5
20°-30°	2163.5	35.1
30°-40°	1680.2	27.3
40°-50°	555.4	9.0
50°-60°	85.2	1.4
60°-70°	15.1	0.2
70°-80°	5.5	0.1
80°-90°	1.5	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°	3812.9	61.9
0°-40°	5493.1	89.2
0°-60°	6133.7	99.6
0°-90°	6155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6155.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3981	
5°	4019	387
15°	4397	1263
25°	4855	2163
35°	2680	1680
45°	656	555
55°	84	85
65°	15	15
75°	4	6
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3981.0
2.5°	3977.1
5°	4019.1
7.5°	4064.9
10°	4122.2
12.5°	4236.7
15°	4397.0
17.5°	4591.7
20°	4782.5
22.5°	4893.2
25°	4855.0
27.5°	4591.7
30°	4084.1
32.5°	3400.8
35°	2679.5
37.5°	2034.4
40°	1496.3
42.5°	1057.2
45°	656.4
47.5°	366.4
50°	225.2
52.5°	137.5
55°	84.0
57.5°	42.0
60°	23.0
62.5°	19.0
65°	15.3
67.5°	11.5
70°	7.7
72.5°	7.7
75°	3.8
77.5°	3.8
80°	3.8
82.5°	3.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)