

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: P583126

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560940-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4628.7 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

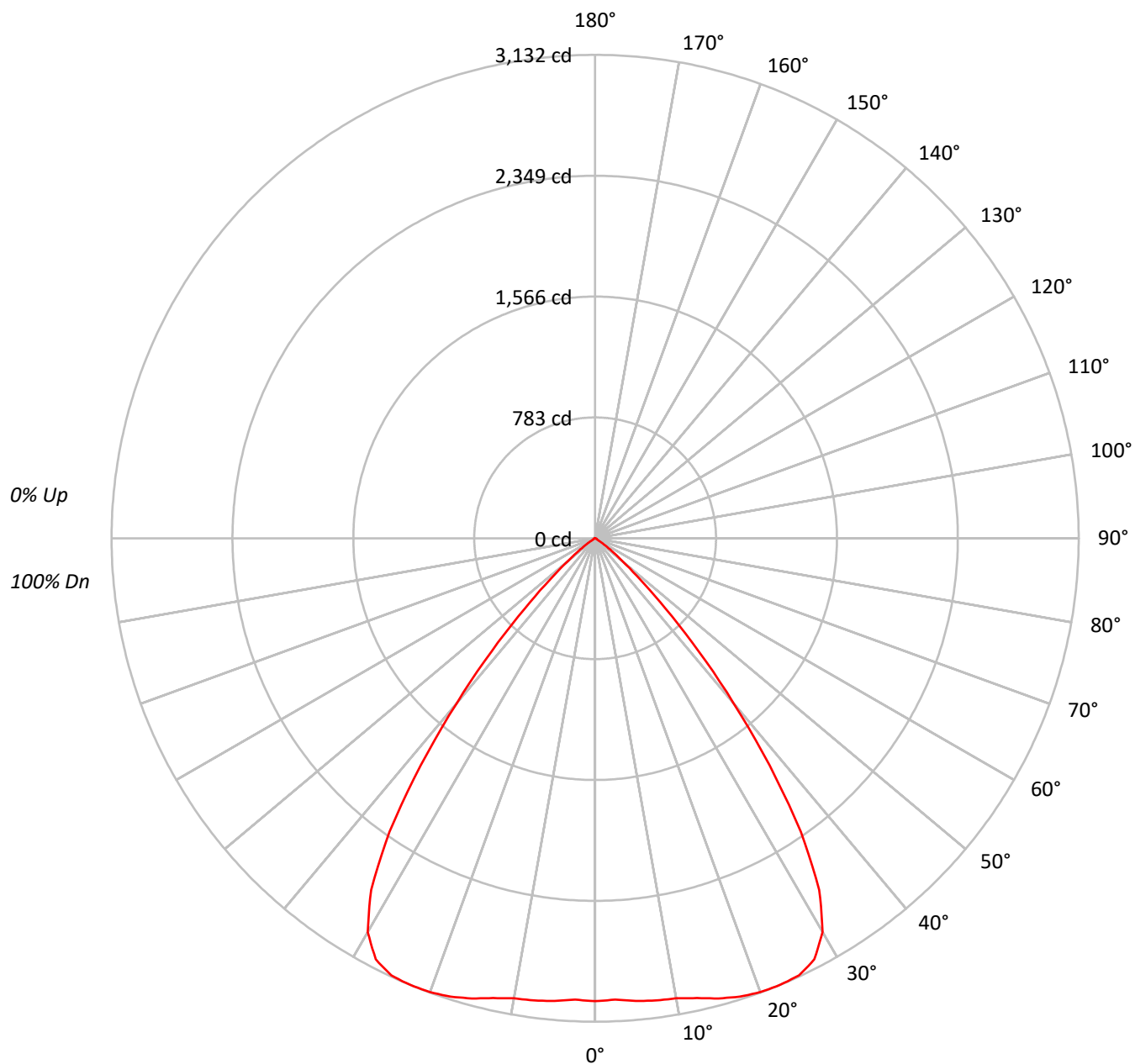
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	105	110	108	105	103	104	102	100		100	98	97		97
2	107	101	97	93	104	100	95	92	96	93	90		93	91	88		90
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84
4	95	86	80	75	93	85	79	75	83	78	74		81	77	73		79
5	89	80	73	68	87	79	73	68	77	72	67		75	70	67		73
6	84	74	67	62	82	73	67	62	71	66	62		70	65	61		69
7	79	68	62	57	77	68	61	57	66	61	57		65	60	56		64
8	74	64	57	52	73	63	57	52	62	56	52		61	56	52		60
9	70	59	53	48	69	59	53	48	58	52	48		57	52	48		56
10	66	56	49	45	65	55	49	45	54	48	45		53	48	44		53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164389
5°	165595
10°	168484
15°	175160
20°	182506
25°	189017
30°	186484
35°	155382
40°	99644
45°	49757
50°	19743
55°	6709
60°	1919
65°	1362
70°	1122
75°	1483
80°	1105
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	6.2
10°-20°	875.4	18.9
20°-30°	1429.3	30.9
30°-40°	1401.1	30.3
40°-50°	537.2	11.6
50°-60°	78.8	1.7
60°-70°	11.7	0.3
70°-80°	6.0	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°	2592.4	56.0
0°-40°	3993.6	86.3
0°-60°	4609.6	99.6
0°-90°	4628.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4628.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2999	
5°	3009	288
15°	3086	875
25°	3125	1429
35°	2322	1401
45°	642	537
55°	70	79
65°	10	12
75°	7	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2998.7
2.5°	2991.6
5°	3009.2
7.5°	3019.7
10°	3026.7
12.5°	3051.2
15°	3086.3
17.5°	3114.4
20°	3128.4
22.5°	3131.9
25°	3124.9
27.5°	3075.8
30°	2946.0
32.5°	2700.6
35°	2321.8
37.5°	1855.3
40°	1392.4
42.5°	992.5
45°	641.8
47.5°	392.8
50°	231.5
52.5°	133.3
55°	70.2
57.5°	31.6
60°	17.5
62.5°	14.1
65°	10.5
67.5°	10.5
70°	7.0
72.5°	7.0
75°	7.0
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)