

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: P583000

Luminaire Tested: **HC655D010-HM64560827-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583000
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-HM64560827-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4464.4 lumens
Efficiency: N/A
Efficacy: 85.9 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

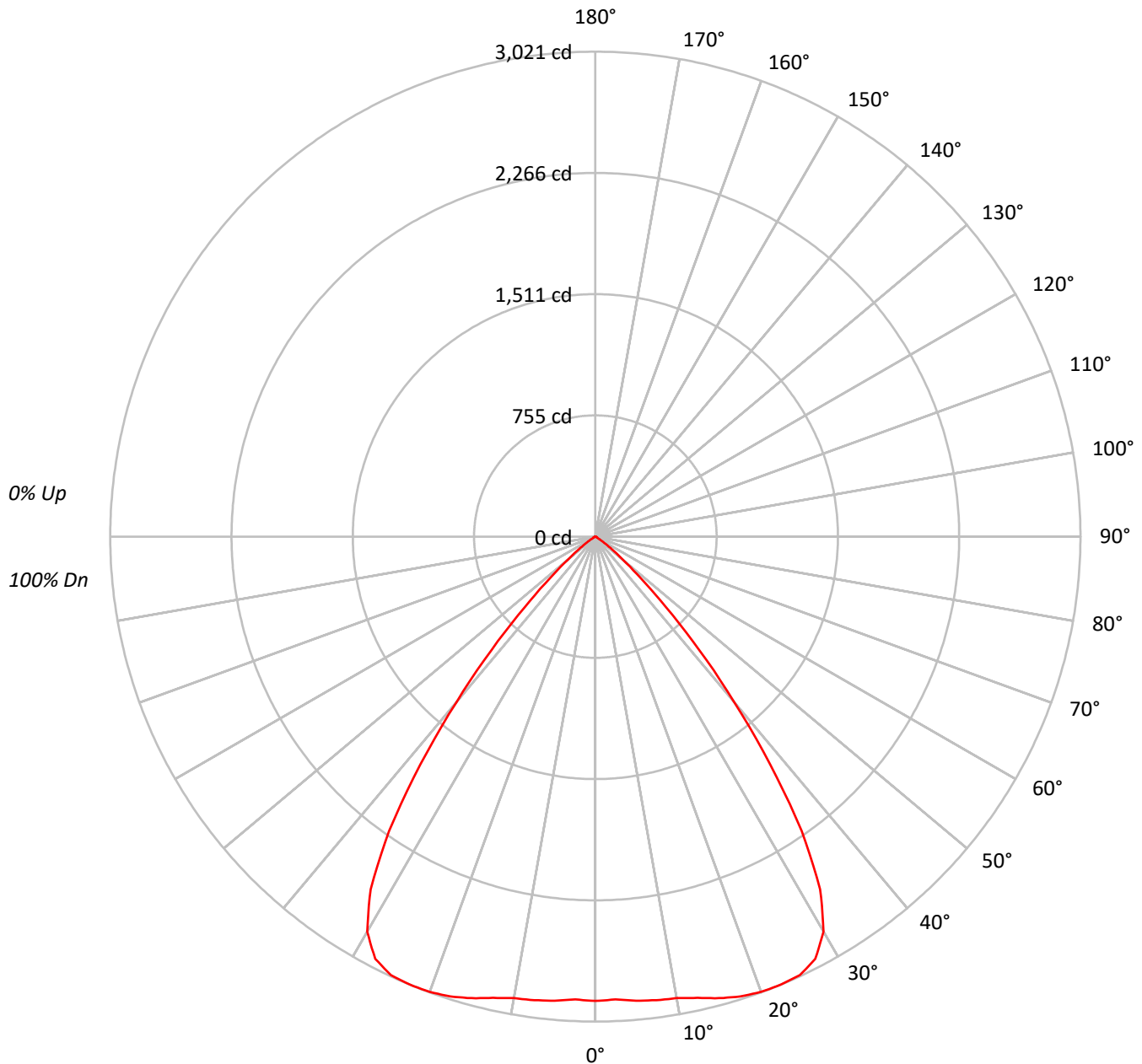
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92		
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85		
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77		
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71		
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65		
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59		
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54		
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50		
9	70	59	53	48	69	59	53	48	58	52	48	57	52	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°	158551
5°	159718
10°	162505
15°	168945
20°	176030
25°	182309
30°	179863
35°	149868
40°	96101
45°	47997
50°	19036
55°	6470
60°	1853
65°	1323
70°	1074
75°	1419
80°	1073
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	6.2
10°-20°	844.3	18.9
20°-30°	1378.6	30.9
30°-40°	1351.4	30.3
40°-50°	518.2	11.6
50°-60°	76.0	1.7
60°-70°	11.3	0.3
70°-80°	5.8	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°	2500.4	56.0
0°-40°	3851.8	86.3
0°-60°	4446.0	99.6
0°-90°	4464.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4464.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2892	
5°	2902	278
15°	2977	844
25°	3014	1379
35°	2239	1351
45°	619	518
55°	68	76
65°	10	11
75°	7	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2892.2
2.5°	2885.5
5°	2902.4
7.5°	2912.5
10°	2919.3
12.5°	2942.9
15°	2976.8
17.5°	3003.9
20°	3017.4
22.5°	3020.8
25°	3014.0
27.5°	2966.6
30°	2841.4
32.5°	2604.7
35°	2239.4
37.5°	1789.4
40°	1342.9
42.5°	957.3
45°	619.1
47.5°	378.9
50°	223.2
52.5°	128.6
55°	67.7
57.5°	30.4
60°	16.9
62.5°	13.5
65°	10.2
67.5°	10.2
70°	6.7
72.5°	6.7
75°	6.7
77.5°	3.4
80°	3.4
82.5°	3.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)