

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: P593304

Luminaire Tested: **HC645D010-HM64560850-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593304
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: HC645D010-HM64560850-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.6 lumens
Efficiency: N/A
Efficacy: 107.6 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

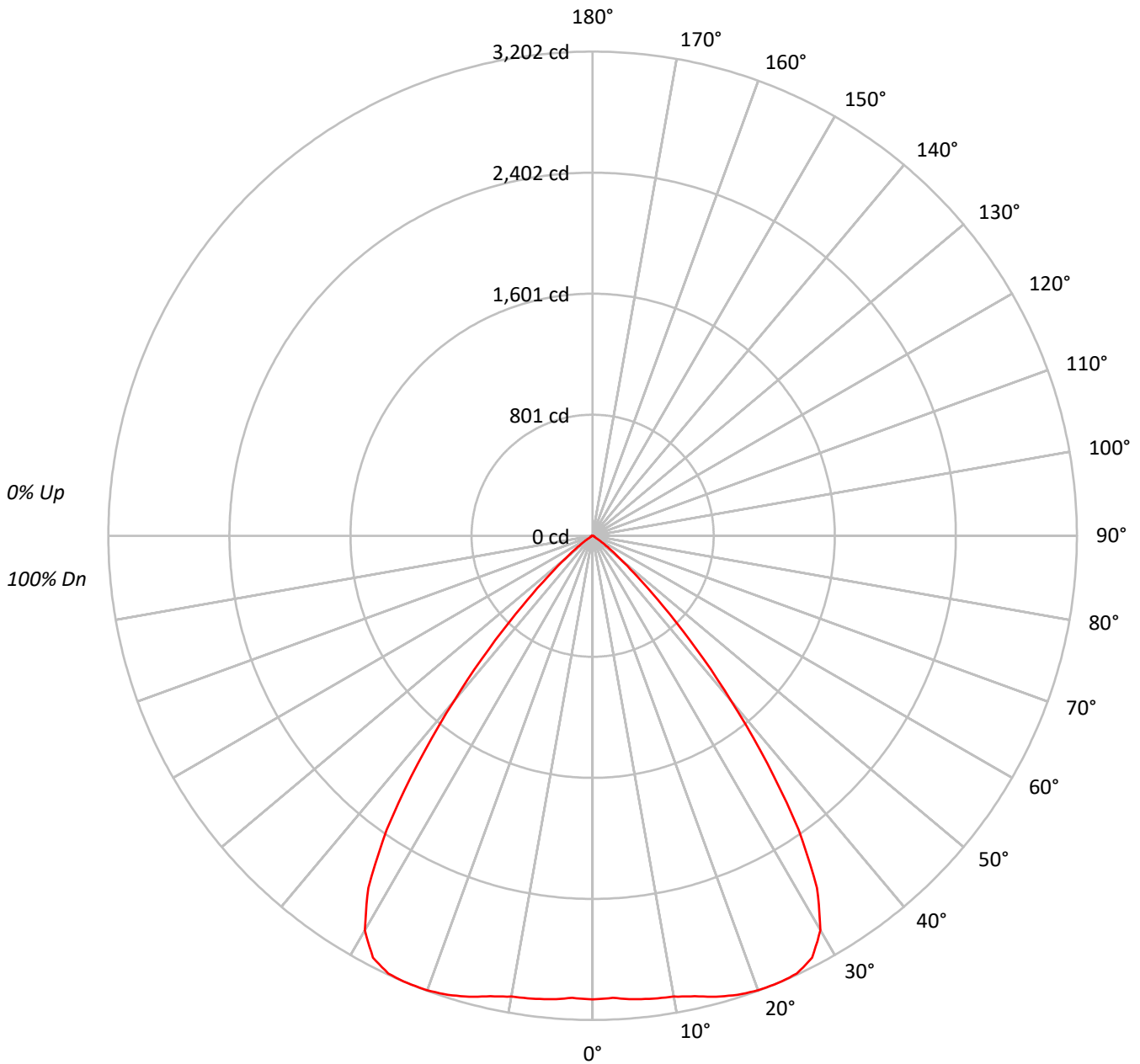
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85	85	85	85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65	65	65	65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59	59	59	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	168079
5°	169315
10°	172264
15°	179093
20°	186607
25°	193257
30°	190669
35°	158869
40°	101877
45°	50873
50°	20187
55°	6853
60°	1963
65°	1401
70°	1154
75°	1525
80°	1137
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	6.2
10°-20°	895.0	18.9
20°-30°	1461.4	30.9
30°-40°	1432.6	30.3
40°-50°	549.3	11.6
50°-60°	80.6	1.7
60°-70°	12.0	0.3
70°-80°	6.2	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°	2650.6	56.0
0°-40°	4083.2	86.3
0°-60°	4713.0	99.6
0°-90°	4732.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3066	
5°	3077	294
15°	3156	895
25°	3195	1461
35°	2374	1433
45°	656	549
55°	72	81
65°	11	12
75°	7	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3066.0
2.5°	3058.8
5°	3076.8
7.5°	3087.5
10°	3094.6
12.5°	3119.7
15°	3155.6
17.5°	3184.3
20°	3198.7
22.5°	3202.2
25°	3195.0
27.5°	3144.8
30°	3012.1
32.5°	2761.1
35°	2373.9
37.5°	1897.0
40°	1423.6
42.5°	1014.8
45°	656.2
47.5°	401.6
50°	236.7
52.5°	136.3
55°	71.7
57.5°	32.3
60°	17.9
62.5°	14.3
65°	10.8
67.5°	10.8
70°	7.2
72.5°	7.2
75°	7.2
77.5°	3.6
80°	3.6
82.5°	3.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)