

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: P593233

Luminaire Tested: **HC635D010-HM63040850-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040850-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4475.5 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

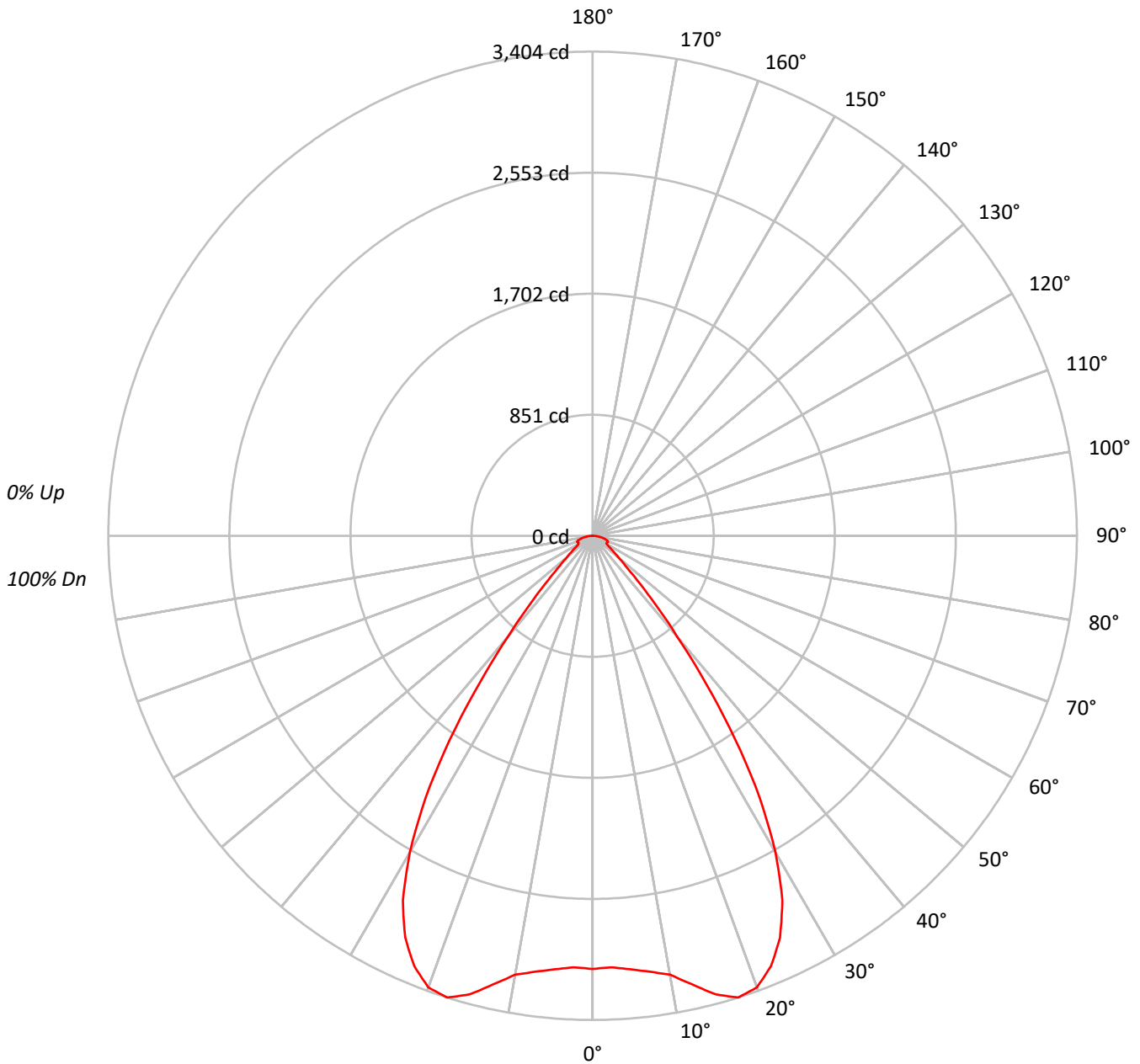
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166922
5°	168346
10°	174412
15°	189451
20°	197061
25°	188485
30°	162664
35°	117122
40°	65981
45°	34197
50°	20383
55°	14690
60°	12477
65°	14398
70°	18240
75°	19275
80°	18879
85°	17926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	6.6
10°-20°	941.5	21.0
20°-30°	1407.2	31.4
30°-40°	1075.7	24.0
40°-50°	375.7	8.4
50°-60°	143.2	3.2
60°-70°	112.3	2.5
70°-80°	95.0	2.1
80°-90°	30.6	0.7
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°	2643.1	59.1
0°-40°	3718.8	83.1
0°-60°	4237.6	94.7
0°-90°	4475.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4475.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3045	
5°	3059	294
15°	3338	941
25°	3116	1407
35°	1750	1076
45°	441	376
55°	154	143
65°	111	112
75°	91	95
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3044.9
2.5°	3036.4
5°	3059.2
7.5°	3090.4
10°	3133.2
12.5°	3229.9
15°	3338.1
17.5°	3403.6
20°	3377.9
22.5°	3275.4
25°	3116.1
27.5°	2888.4
30°	2569.7
32.5°	2188.4
35°	1750.1
37.5°	1297.7
40°	922.0
42.5°	645.9
45°	441.1
47.5°	310.2
50°	239.0
52.5°	187.8
55°	153.7
57.5°	125.2
60°	113.8
62.5°	111.0
65°	111.0
67.5°	116.7
70°	113.8
72.5°	105.3
75°	91.0
77.5°	76.8
80°	59.8
82.5°	42.7
85°	28.5
87.5°	11.4
90°	0.0



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— 0°-180°







(END OF REPORT)