

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: P582391

Luminaire Tested: **HC635D010-HM63040935-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040935-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.4 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

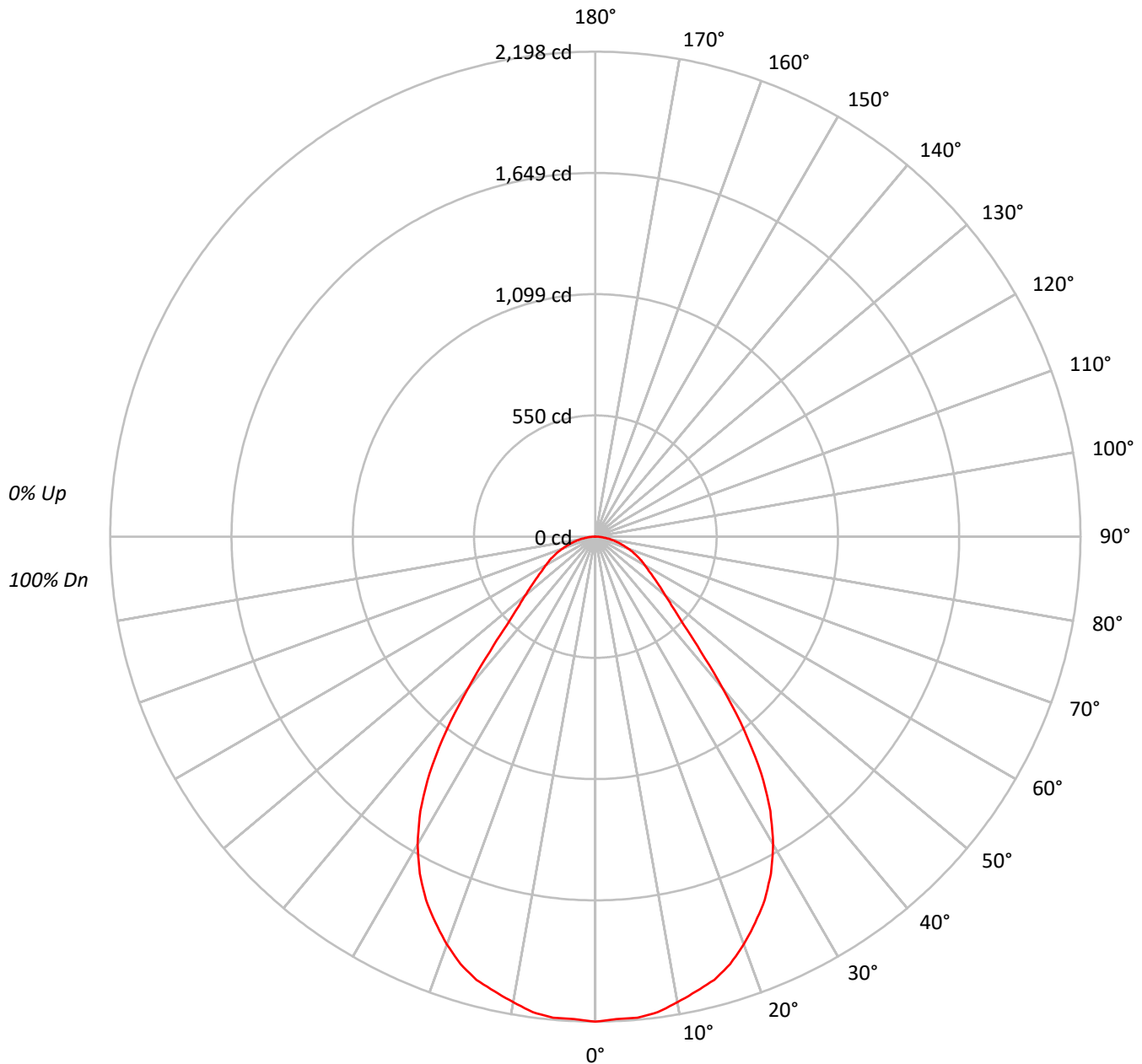
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		94
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85
3	96	87	81	76	94	86	80	75	83	78	74		81	76	72		78
4	89	80	72	67	87	78	72	66	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	54	64	58	53		63	57	53		61
7	73	62	54	49	72	61	54	49	60	53	48		58	52	48		57
8	69	57	50	45	68	57	50	45	55	49	44		54	48	44		53
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50
10	61	50	43	38	60	49	42	38	48	42	38		47	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	120511
5°	120438
10°	119270
15°	118037
20°	114705
25°	109857
30°	101952
35°	87723
40°	64027
45°	43873
50°	35274
55°	30737
60°	28364
65°	26981
70°	25197
75°	23553
80°	21373
85°	18304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	5.9
10°-20°	584.1	16.5
20°-30°	830.7	23.5
30°-40°	799.8	22.6
40°-50°	460.2	13.0
50°-60°	291.5	8.3
60°-70°	206.4	5.8
70°-80°	117.7	3.3
80°-90°	33.6	1.0
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°	1622.3	45.9
0°-40°	2422.1	68.6
0°-60°	3173.8	89.9
0°-90°	3531.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2198	
5°	2189	207
15°	2080	584
25°	1816	831
35°	1311	800
45°	566	460
55°	322	292
65°	208	206
75°	111	118
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2198.3
2.5°	2188.6
5°	2188.6
7.5°	2174.1
10°	2142.6
12.5°	2111.2
15°	2079.8
17.5°	2031.4
20°	1966.2
22.5°	1893.6
25°	1816.2
27.5°	1721.9
30°	1610.6
32.5°	1475.2
35°	1310.8
37.5°	1110.1
40°	894.7
42.5°	706.2
45°	565.9
47.5°	476.4
50°	413.6
52.5°	362.7
55°	321.6
57.5°	285.3
60°	258.7
62.5°	234.6
65°	208.0
67.5°	183.8
70°	157.2
72.5°	133.0
75°	111.2
77.5°	89.5
80°	67.7
82.5°	48.3
85°	29.1
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)