

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: P582364

Luminaire Tested: **HC635D010-HM63040930-61NDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040930-61NDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3736.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

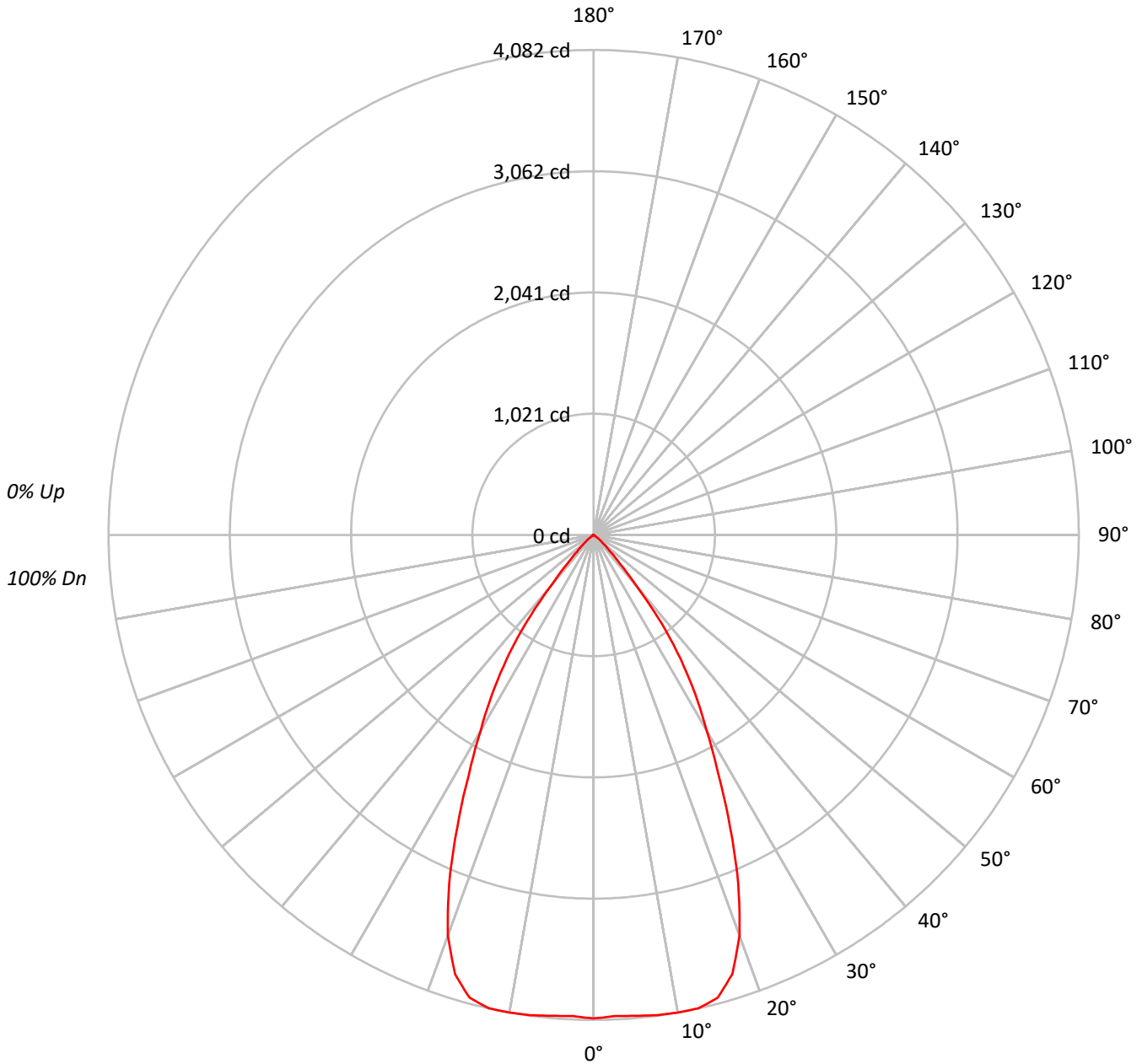
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			94
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87			87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82			82
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76			76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71			71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			67
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55			55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	223118
5°	223569
10°	227245
15°	228906
20°	209248
25°	164423
30°	120354
35°	85380
40°	40376
45°	15405
50°	6908
55°	1873
60°	811
65°	636
70°	401
75°	530
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	10.4
10°-20°	1114.8	29.8
20°-30°	1240.0	33.2
30°-40°	774.6	20.7
40°-50°	184.0	4.9
50°-60°	26.3	0.7
60°-70°	5.5	0.1
70°-80°	2.3	0.1
80°-90°	0.0	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°	2743.4	73.4
0°-40°	3518.0	94.2
0°-60°	3728.4	99.8
0°-90°	3736.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4070	
5°	4063	389
15°	4033	1115
25°	2718	1240
35°	1276	775
45°	199	184
55°	20	26
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4070.0
2.5°	4052.9
5°	4062.7
7.5°	4077.4
10°	4082.3
12.5°	4079.8
15°	4033.3
17.5°	3876.3
20°	3586.8
22.5°	3179.5
25°	2718.3
27.5°	2276.7
30°	1901.3
32.5°	1589.8
35°	1275.8
37.5°	937.2
40°	564.2
42.5°	326.3
45°	198.7
47.5°	127.6
50°	81.0
52.5°	46.6
55°	19.6
57.5°	9.8
60°	7.4
62.5°	7.4
65°	4.9
67.5°	4.9
70°	2.5
72.5°	2.5
75°	2.5
77.5°	2.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)