

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: P582409

Luminaire Tested: **HC635D010-HM63040940-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582409
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-HM63040940-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3622.4 lumens
Efficiency: N/A
Efficacy: 107.5 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

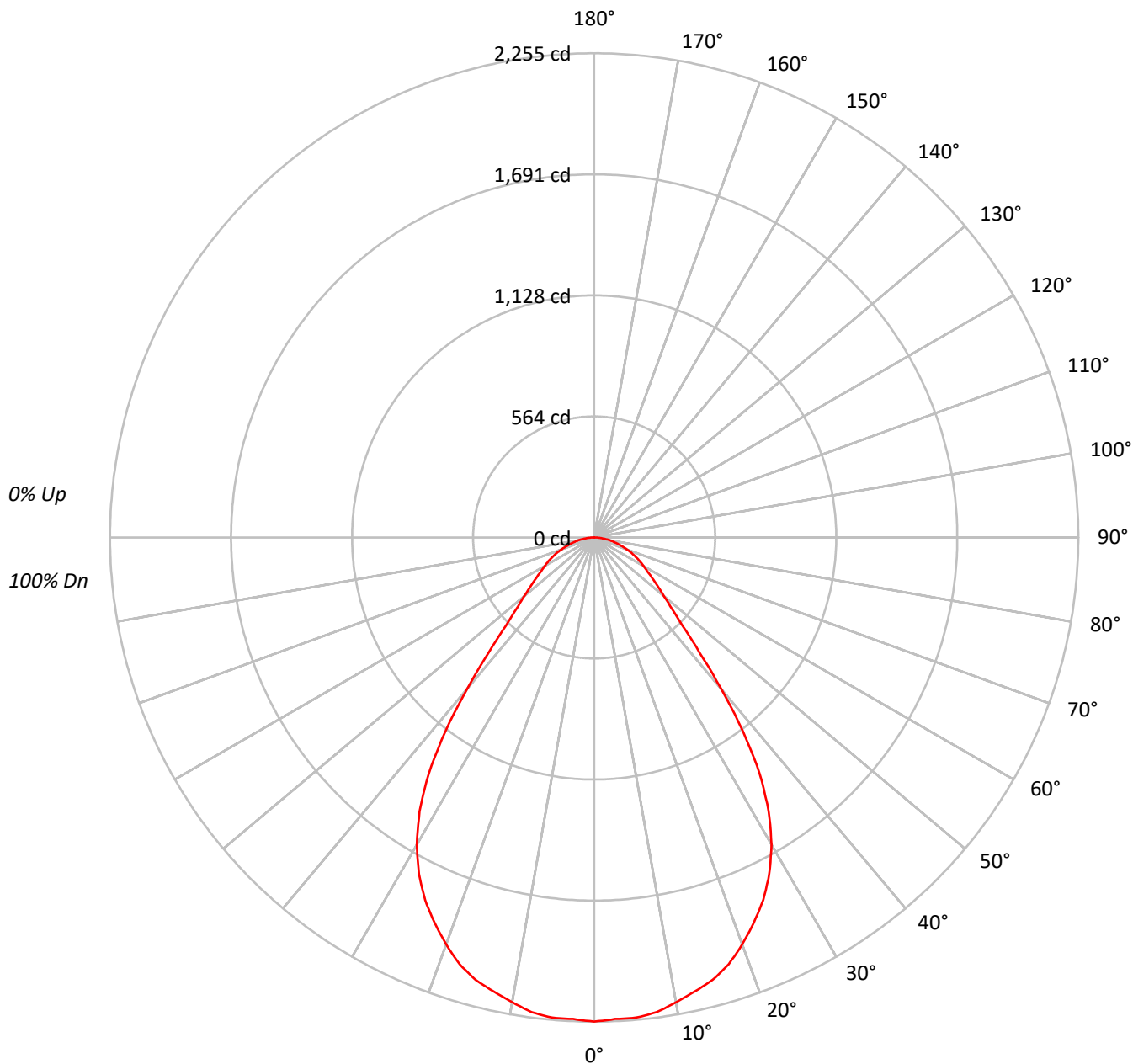
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123614
5°	123541
10°	122348
15°	121079
20°	117657
25°	112688
30°	104579
35°	89978
40°	65680
45°	45005
50°	36178
55°	31531
60°	29099
65°	27668
70°	25854
75°	24167
80°	21909
85°	18744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	5.9
10°-20°	599.2	16.5
20°-30°	852.1	23.5
30°-40°	820.4	22.6
40°-50°	472.0	13.0
50°-60°	299.1	8.3
60°-70°	211.7	5.8
70°-80°	120.7	3.3
80°-90°	34.4	0.9
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°	1664.1	45.9
0°-40°	2484.5	68.6
0°-60°	3255.6	89.9
0°-90°	3622.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3622.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2255	
5°	2245	213
15°	2133	599
25°	1863	852
35°	1344	820
45°	580	472
55°	330	299
65°	213	212
75°	114	121
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2254.9
2.5°	2245.0
5°	2245.0
7.5°	2230.1
10°	2197.9
12.5°	2165.6
15°	2133.4
17.5°	2083.8
20°	2016.8
22.5°	1942.4
25°	1863.0
27.5°	1766.3
30°	1652.1
32.5°	1513.2
35°	1344.5
37.5°	1138.6
40°	917.8
42.5°	724.4
45°	580.5
47.5°	488.7
50°	424.2
52.5°	372.2
55°	329.9
57.5°	292.7
60°	265.4
62.5°	240.6
65°	213.3
67.5°	188.6
70°	161.3
72.5°	136.4
75°	114.1
77.5°	91.8
80°	69.4
82.5°	49.6
85°	29.8
87.5°	12.4
90°	0.0



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— 0°-180°







(END OF REPORT)