

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: P582291

Luminaire Tested: **HC635D010-HM63040830-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC635D010-HM63040830-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3603.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

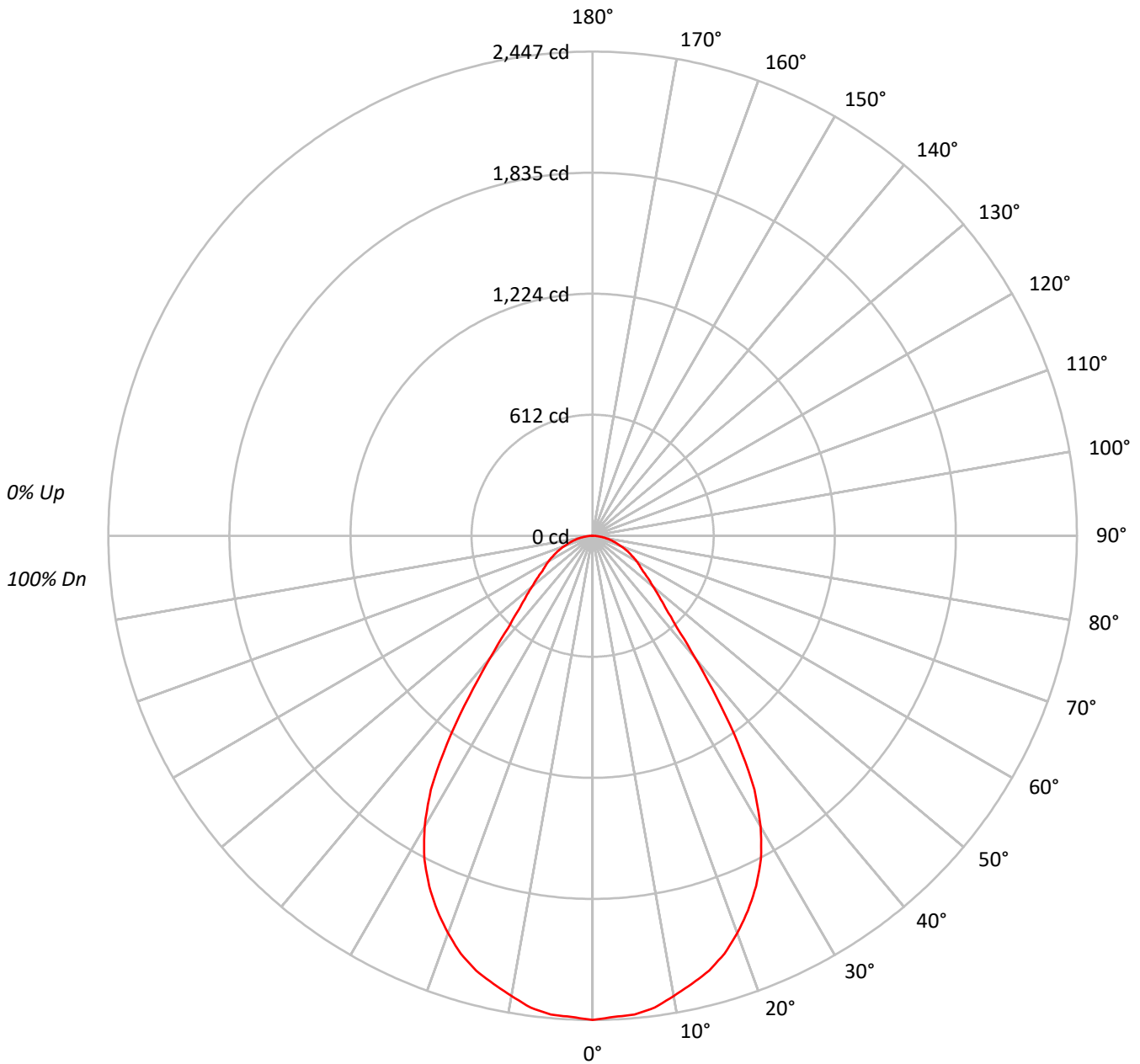
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134150
5°	133656
10°	131427
15°	129104
20°	124652
25°	118192
30°	107504
35°	85902
40°	57315
45°	40857
50°	34037
55°	29667
60°	28035
65°	26397
70°	24267
75°	22664
80°	20583
85°	18052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	6.4
10°-20°	638.7	17.7
20°-30°	892.6	24.8
30°-40°	786.3	21.8
40°-50°	424.8	11.8
50°-60°	284.0	7.9
60°-70°	201.3	5.6
70°-80°	113.2	3.1
80°-90°	33.0	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°	1761.0	48.9
0°-40°	2547.3	70.7
0°-60°	3256.1	90.4
0°-90°	3603.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3603.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2447	
5°	2429	230
15°	2275	639
25°	1954	893
35°	1284	786
45°	527	425
55°	310	284
65°	204	201
75°	107	113
85°	29	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2447.1
2.5°	2434.0
5°	2428.8
7.5°	2405.3
10°	2361.0
12.5°	2319.2
15°	2274.8
17.5°	2214.8
20°	2136.7
22.5°	2050.5
25°	1954.0
27.5°	1841.8
30°	1698.3
32.5°	1521.0
35°	1283.6
37.5°	1025.2
40°	800.9
42.5°	631.3
45°	527.0
47.5°	456.5
50°	399.1
52.5°	352.2
55°	310.4
57.5°	281.7
60°	255.7
62.5°	229.5
65°	203.5
67.5°	177.4
70°	151.4
72.5°	127.8
75°	107.0
77.5°	86.1
80°	65.2
82.5°	46.9
85°	28.7
87.5°	13.1
90°	0.0



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— 0°-180°







(END OF REPORT)